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A reconstruction of the tables of Briggs and Gellibrand's *Trigonometria Britannica* (1633)

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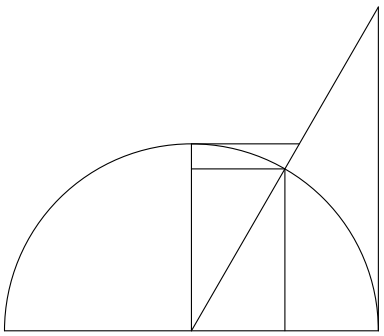
6 December 2010



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I ever rest a lover of all them that love the Mathematickes

Henry Briggs, preface to [54]

1 Briggs' first tables (1617)

Henry Briggs (1561–1631)[1] is the author of the first table of decimal logarithms, published in 1617, of the first extensive table of decimal logarithms of numbers, and of one of the first two extensive tables of decimal logarithms of trigonometric functions.

After having been educated in Cambridge, Briggs became in 1596 the first professor of geometry at Gresham College, London [85, p. 120], [74, p. 20], [92]. Gresham College was England's scientific centre for navigation, geometry, astronomy and surveying.[2] Briggs stayed there until 1620, at which time he went to Oxford, having been appointed the first Savilian Professor of Geometry in 1619 [74, p. 24].

While at Gresham College, Briggs became friends with Edward Wright. He also seems to have spent time doing research in astronomy and navigation [74, pp. 29–30]. Briggs had in particular published several tables for the purpose of navigation in 1602 and 1610 [93]. Several of Briggs' tables were published under the name of others [74, p. 8].[3]

In 1614, John Napier (1550–1617) published his *Mirifici logarithmorum canonis descriptio*, the description of his table of logarithms [53, 69]. It is through this work that Briggs was early exposed to the theory of logarithms. After Napier's publication, Briggs went to visit him in Scotland in the summers of 1615 and 1616 and they agreed on the need to reformulate the logarithms, a task that Briggs took over.

Briggs published his first table of decimal logarithms in 1617 [8, 62]. It was a small booklet of 16 pages, of which the first page was an introduction, and the remaining 15 pages were tables. Briggs' table gave the decimal logarithms of the integers 1 to 1000 to 14 places.

2 From numbers to trigonometric functions

In 1624, Briggs published his *Arithmetica logarithmica* [9]. This work was incomplete, and it is thought that Briggs had completed a large portion of the interval 20001–90000 in the subsequent years. But it is likely that Vlacq's own table in 1628 postponed Briggs' project.

According to Hallowes [37, p. 85], in 1628 Briggs must have felt that he could not complete both the tables of the logarithms of numbers and the logarithms of trigonometric functions, and he must then have turned exclusively to the trigonometric functions.

So, Briggs worked on tables of logarithms of trigonometric functions, first introduced by Gunter in 1620 [35]. Briggs' tables were completed by Gellibrand and published in

[1] Briggs was baptized on February 23, 1560 (old style), which is 1561 new style. He died on January 26, 1630 (old style), which is 1631 new style [45].

[2] Gresham College was a very fluctuating institution, and the main reason for its claim to scientific responsability was the work and influence of Briggs. The flourishing period of Gresham College ended with the death of Henry Gellibrand in 1636 [2, p. 20].

[3] For more biographical information on Briggs, consult Smith [72], Ward [85], Sonar [74] and Kaunzner [46]. Sonar gives an overview of Briggs' works prior to his tables of logarithms [74].

1633. That same year, Vlacq published his own tables of logarithms of trigonometric functions. Although Briggs and Vlacq both used a division of 90 degrees, Briggs divided the degrees centesimally, whereas Vlacq used the usual sexagesimal division.

3 Briggs' *Trigonometria britannica* (1633)

The *Trigonometria britannica* [10] published in 1633 contains the sines to 15 places, the tangents and secants to 10 places, the logarithms of the sines to 14 places and the logarithms of the tangents to 11 places, every hundredth of a degree.[4]

The introduction to the tables consists of two books, one of explanations [10, pp. 1–60], and one of applications [10, pp. 61–110], the latter written by Henry Gellibrand[5] after Briggs' death.[6] The *Trigonometria britannica* was published in 1633 by Vlacq in Holland.

An English translation of the second book of the *Trigonometria britannica* was published in 1658 as part of John Newton's *Trigonometria britannica* [56]

3.1 The computation of sines

The first book of the *Trigonometria britannica* [10, pp. 1–60] is mainly concerned with the construction of sines.[7]

In chapter [10, pp. 2–3], Briggs first considered Ptolemy's method of computing sines. This method is based on Ptolemy's theorem according to which the chord of $a - b$ can be obtained from the chords of a and b.

Briggs' sine is of course a "line sines,"[8] that is the length of the opposite side of a triangle of which the hypothenuse is some given value such as 10^{10}. It is however possible to argue between two interpretations. In the first interpretation, there is indeed a radius of 10^{10}. In the second interpretation, the radius is considered to be 1, but given with 10 digits, the position of the unit being omitted. It is the second interpretation which should be favored, for in chapter 1 of the *Trigonometria britannica*, Briggs writes that the radius is taken as one part, and that it is divided in a number of smaller parts [10, p. 1]. Further computations confirm this interpretation.[9]

[4]After Briggs, more accurate tables of sines, tangents and secants were computed by Andoyer to 15 places and with a step of $10''$ [26, p. 178–180], [4]. Andoyer computed also the logarithms of sines and tangents to 14 places and with a step of $10''$ [26, p. 200–201], [3]. Some authors have computed sines to a larger number of decimals, but not with degrees, or only for very large steps.

[5]Gellibrand (1597–1637) had become professor of astronomy at Gresham college after Edmund Gunter's death [85]. Besides completing the *Trigonometria britannica*, he also worked on the variation of the magnetic declination.

[6]Briggs' introduction was translated in English and annotated by Ian Bruce, see `http://www.17centurymaths.com`.

[7]Most of the present discussion is borrowed from Ian Bruce's translation of the *Trigonometria britannica*, and from Bruce's article [10, 12].

[8]Although some authors take the radius of the circle to be 1, one has to wait for Lardner's trigonometry (1826) to see the sines defined as *ratios* [19, p. 526]. This should be clearly distinguished from authors such as Prony, who, for reasons of convenience, give the sines as "parts of the radius" (ca. 1795), at the same time suggesting that there are different definitions [70].

[9]Nevertheless, several authors claim that Briggs' radius was not 1. According to Gerhardt, for instance, the radius was 10^{15} for the sines and 10^{10} for the tangents and secants [28, pp. 115–116].

3.1.1 Multiplication of arcs

In the third chapter of the *Trigonometria britannica* [10, pp. 3–5], Briggs considers the triplication of an arc and shows that $c(3a) = 3p - p^3$, where $p = c(a)$ is the chord of arc a and $c(3a)$ is the chord of $3a$. This formula is only true if the radius of the circle is 1, and Briggs writes that the radius is 1. In chapter 5, he considers similarly quintuplication.

The fact that the radius is 1 is also confirmed by the way Briggs notes his examples of triplication. In his first example, he considers the radius 10000000000 and the chord of 16°, 02783462019. The square of that chord is noted 0077476608112 and its cube 0021565319604. The subtended chord is then tripled 08350386057 and the cube 00215653196 is subtracted, the result being 08134732861. All these numbers are aligned as follows by Briggs [10, p. 4]:

10000000000
02783462019
0077476608112
0021565319604
...
08350386057
00215653196
08134732861

It would be possible to interpret the various values differently, for instance 02783462019 as 2783462019, but for the reason given above, Briggs means 0.2783462019.

In the sequel, we will always consider that the radius of the circle is 1, but that the sines, tangents and secants are given in units of smaller parts, for this is what Briggs meant.

3.1.2 Division of arcs

After having considered the triplication and quintuplication, Briggs considered again the equations, but now in order to divide an arc into 3 (chapter 4 [10, pp. 5–10]), 5 (chapter 6 [10, pp. 12–18]), and 7 (chapter 7 [10, pp. 19–20]) parts. For instance, if p is the chord of an angle a, we have seen that the chord of $3a$ is $c(3a) = 3p - p^3$, and trisecting an angle amounts to solve a cubic equation [12, p. 461]. For a division by 5, the equation is $c(5a) = 5p - 5p^3 + p^5$. Then we have $c(7a) = 7p - 14p^3 + 7p^5 - p^7$. And so on. Even sections lead to the equations $c(2a) = \sqrt{4p^2 - p^4}$, $c(4a) = \sqrt{16p^2 - 20p^4 + 8p^6 - p^8}$, and so on. The general case is considered in chapter 8 [10, pp. 20–28] and the coefficients of all these equations can be obtained from a table given by Briggs [10, p. 23]. This table can easily be extended.

Briggs' work is certainly partly inspired from François Viète's *Ad angulares sectiones* which has such a table [81, p. 295].[10] Viète is in particular explicitely quoted on the cover of the *Trigonometria britannica*.

It is interesting to observe that Jost Bürgi also obtained another similar table for the same purpose, certainly independently, and described it in his "Coss," probably around 1598 [49, pp. 33–35] [57, p. 77].

[10] An English translation by Ian Bruce is available on `http://www.17centurymaths.com`.

3.1.3 Solving the equations

Like Bürgi before him [49], Briggs develops a method to find some roots of these equations by iteration. In the case of a cubic $x^3 - 3x = a$ which is handled in the chapter 4 of the *Trigonometria britannica*, Briggs considers a first approximation b of a root made of one significative digit. He then writes $L = b + c$ for a new approximation. Replacing x by L in the equation and ignoring the terms in c^2 and c^3, Briggs obtains an approximation of $c \approx \frac{a-b^3+3b}{3b^2-3}$ of which he keeps one significative (non zero) digit. The process continues until the approximation is accurate enough.

This happens to be exactly the so-called Newton-Raphson method, with the constraint that only one new digit is obtained at a time. The Newton-Raphson method actually goes back at least to Viète.[11] In modern terms, the method goes as follows [79, 94]: if x_0 is an approximation of a root of $f(x) = 0$, then a new approximation x_1 is given by

$$x_1 = x_0 - \frac{f(x_0)}{f'(x_0)}.$$

If we set $f(x) = x^3 - 3x - a$, then $f'(x) = 3x^2 - 3$, and we obtain Briggs' algorithm in the case of trisection.

The sixth chapter of the *Trigonometria britannica* is devoted to the quinquisection of arcs and expounds the same method. Briggs considers the equation $x^5 - 5x^3 + 5x = a$, a first approximation b of a root, and he obtains a new approximation $L = b + c$ with $c \approx \frac{a-b^5+5b^3-5b}{5b^4+15b^2+5}$.

3.1.4 The fundamental sines

Starting with the chord of 60° which is equal to 1 (in a circle of radius 1), Briggs used trisection obtaining $c(20°)$, 5-fold multiplication obtaining $c(100°)$, bisection ($c(50°)$, $c(25°)$, $c(12°30')$, $c(6°15')$), triplication ($c(18°45')$, $c(56°15')$), duplication ($c(37°30')$, $c(75°)$), and again triplication ($c(112°30')$). By 5-fold multiplication, he obtained $c(31°15')$, then by duplication $c(62°30')$ and $c(125°)$, and by triplication $c(93°45')$. By 7-fold multiplication, he obtained $c(43°45')$ and by duplication $c(87°30')$. Still multiplying $c(6°15')$ by 11, 13, 17 and 19, he obtained $c(68°45')$, $c(81°15')$, $c(106°15')$, and $c(118°45')$. The halves of all these chords are the sines of $3°\frac{1}{8}$, $6°\frac{2}{8}$, $9°\frac{3}{8}$, …, $62°\frac{1}{2}$, which he obtained accurate to 22 places. These values are given in the chapter 13 of the *Trigonometria britannica* [10, p. 42].

3.1.5 Division of the quadrant in 144 parts and first quinquisection

In chapter 12 of the *Trigonometria britannica* [10, pp. 35–41], Briggs describes his method of quinquisection using differences.[12] This is the same method as that expounded in the *Arithmetica logarithmica*, and that we have described elsewhere [67]. The method of

[11] On Newton-Raphson's method, and Viète's influence, see Whiteside [88, pp. 218–222], [89, p. 665]. Newton appears to have never read Briggs' works [88, p. 164]. Newton owned Vlacq's *Trigonometria artificialis*, but not Briggs' *Trigonometria britannica* [89, p. 193].

[12] In this chapter, Briggs observes the proportionality between the second differences and the sines and this relationship can be used to construct the differences. About this relationship, see Delambre [17, p. 47–48], [21], as well as our study of the *Tables du cadastre* [70].

quinquisection is equivalent to Newton's forward difference formula, but Briggs didn't know Newton's formula [67].

So, in a first stage (chapter 13 of the *Trigonometria britannica* [10, p. 42]), Briggs used this method to compute the sines from 0° to $62°\frac{1}{2}$, every $0.625° = \frac{6°15'}{5}$ and to 19 decimal places. The remaining values of the quadrant could be found easily with

$$\sin x + \sin(60° - x) = \sin(60° + x).$$

So, eventually, the quadrant was divided into 144 parts [10, pp. 43–44].

If the sines at interval of $1°15'$ are taken, that is, if the quadrant is divided into 72 parts, and if the intervals are divided again three times using the quinquisection with differences, we reach an interval of 0°.01. The quadrant is then divided into 9000 parts. If instead it was desired to give the sines every thousandths of a degree, we can start with the division into 144 parts and do four quinquisections with differences, which gives a division of the quadrant in 90000 parts.

Briggs gives an example where the quinquisection is applied to divide an interval of 0.625° and he uses up to the 7th differences [10, p. 45]. In the second quinquisection, he uses up to the 6th differences [10, p. 46], in the third quinquisection he uses up to the 5th differences [10, p. 47], and in the last quinquisection he stops at the 4th differences [10, p. 48]. When starting with an interval of $1°15'$, Briggs has certainly used only lower differences.

3.2 The computation of tangents and secants

The computation of the tangents and secants is described in chapter 15 of the *Trigonometria britannica* [10, pp. 50–52]. Once the sines have been computed for the 72 or 144 divisions of the quadrant, Briggs computes the tangents and secants of the same angles in the first half of the quadrant with:

$$\frac{r}{\tan_b(90° - x)} = \frac{\sin_b x}{\sin_b(90° - x)} \quad \text{(TB, Prop. 1, p. 50)}$$

$$\frac{\sin_b x}{r} = \frac{r}{\sec_b(90° - x)} \quad \text{(TB, Prop. 2, p. 50)}$$

where r is the radius and the sines, tangents and secants are expressed in parts of the radius. We have $\sin_b x = r \sin x$, $\sec_b x = r \sec x$ and $\tan_b x = r \tan x$. These functions were not used previously, because the previous equations were true even with the modern functions. Note that the name 'cosine' is not used by Briggs. It was first used by Gunter in 1620 [35].

Briggs also gave the two propositions:

$$\frac{r}{\sin_b x} = \frac{\sec_b x}{\tan_b x} \quad \text{(TB, Prop. 3, p. 50)}$$

$$\frac{\tan_b x}{r} = \frac{r}{\tan_b(90° - x)} \quad \text{(TB, Prop. 4, p. 50)}$$

For the remaining part of the quadrant, Briggs used the following relations with which the tangents and secants of the upper quadrant can be computed from those of the lower

quadrant. These relations are true whether for the modern functions, or if the values of the functions are taken with smaller units.

$$\sec x = \tan x + \tan\left(\frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 5, p. 50)}$$

$$\sec x + \tan x = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 6, p. 51)}$$

$$\sec x - \tan x = \tan\left(\frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 7, p. 51)}$$

$$2\tan x + \tan\left(\frac{90^\circ - x}{2}\right) = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 8, p. 51)}$$

Like for the sines, Briggs then applied quinquisection width differences to obtain intervals of 0.01°. However, although Briggs does not mention it, it is likely that Briggs only used quinquisection for the first half of the quadrant and filled the second half using the above formulæ. For instance, the value of tan(89.°99) can be obtained from tan(89.°98) and tan(0.°01), tan(89.°98) can be obtained from tan(89.°96) and tan(0.°02), tan(89.°96) can be obtained from tan(89.°92) and tan(0.°04), etc. There is an accumulation of errors, but each initial tangent must be computed with these errors in view. It is not known to what accuracy Briggs computed the tangents and secants, but the printed values have 10 decimal places. Briggs may have compared the quinquisection with the use of the above formulæ to decide which one was most advantageous.

3.3 The logarithms of sines

The chapter 16 of the *Trigonometria britannica* [10, pp. 52–55] is devoted to the computation of the logarithms of the sines.

For their computation, briggs takes the total sine to be 10^{15}, or more exactly 1, with 15 zeros, or 10^{15} smaller parts. Its logarithm is taken to be 10. In other words, the total sine is actually considered to be 10^{10} for the purpose of the logarithms. This was already Gunter's convention in 1620 [35] and might be called the convention of "shifted logarithms." For Gunter and Briggs, $\log \sin_b x = \log(10^{10} \sin x) = 10 + \log \sin x$.[13] The characteristic is here the number of integer digits of $10^{10} \sin x$ minus one. Briggs writes that the whole sine has the characteristic 10, but that the characteristic of the remaining sines until $\arcsin 0.1 = 5°44'$ is 9, then it is 8, and so on.[14]

Now, Briggs first computes the logarithms of the 72 sines of the quadrant, at intervals of $1°15'$ [10, p. 55]. The computation of the logarithms is done using the radix method described in chapter 14 of Briggs' *Arithmetica logarithmica*.

Once the logarithms of these 72 sines are known, quinquisection is used to obtain the logarithms of most of the other sines of the quadrant. The quinquisection will however

[13] This is what Briggs writes, in Ian Bruce's translation: "the number of places in this table is more than the characteristic, as we would have the sines themselves more accurate, and finally truly five places are added on to the sines (...)." I assume that Gunter and Briggs chose this correspondence in order to make sure that the characteristic has only one digit, except for the total sine.

[14] In more recent tables, the logarithms of sines were sometimes rendered positive by adding 10. This may take its origin in Gunter and Briggs' convention, but it is still slightly different, and Gunter and Briggs' values are only similar because they chose the total sine to mean 10^{10}.

not work for the first logarithms, because the differences have a too large variation.

Briggs therefore uses the following relation (which he obtains geometrically):

$$\frac{\sin_b\left(\frac{\theta}{2}\right)}{\sin_b\theta} = \frac{r/2}{\sin_b\left(90^\circ - \frac{\theta}{2}\right)}$$

or in modern terms

$$\frac{\sin\left(\frac{\theta}{2}\right)}{\sin\theta} = \frac{\sin 30^\circ}{\sin\left(90^\circ - \frac{\theta}{2}\right)}$$

and therefore

$$\log\sin_b\left(\frac{\theta}{2}\right) = \log\sin_b 30^\circ + \log\sin_b\theta - \log\sin_b\left(90^\circ - \frac{\theta}{2}\right)$$

Briggs therefore obtains the logarithms (of the sines) of small angles by the logarithms (of the sines) of larger angles computed beforehand.

3.4 The logarithms of tangents and secants

In the 17th and last chapter of Briggs' part in the *Trigonometria britannica* [10, pp. 56–60], Briggs describes the computation of the logarithms of tangents and secants. This chapter partly overlaps chapter 15, probably because Briggs did no longer have the time to organize it.

Briggs starts by giving a number of properties of the secants and tangents (the first eight properties being only additive are given in modern terms):

$$\frac{\tan x + \tan(90^\circ - x)}{2} = \sec(x - (90^\circ - x)) \quad \text{(TB, Prop. 1, p. 56)}$$

$$\frac{\tan x - \tan(90^\circ - x)}{2} = \tan(x - (90^\circ - x)) \quad \text{(TB, Prop. 2, p. 56)}$$

$$\sec x + \tan x = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 3, p. 56)}$$

$$\sec x - \tan x = \tan\left(\frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 4, p. 56)}$$

$$\tan x + \tan\left(\frac{90^\circ - x}{2}\right) = \sec x \quad \text{(TB, Prop. 5, p. 56)}$$

$$2\tan x + \tan\left(\frac{90^\circ - x}{2}\right) = \tan\left(x + \frac{90^\circ - x}{2}\right) \quad \text{(TB, Prop. 6, p. 56)}$$

$$\tan(90^\circ - x) - \tan x = 2\tan((90^\circ - x) - x) \quad \text{(TB, Prop. 7, p. 57)}$$

$$\tan(90^\circ - x) - 2\tan((90^\circ - x) - x) = \tan x \quad \text{(TB, Prop. 8, p. 57)}$$

The following equations involve mean proportionals:

$$\frac{\tan_b x}{r} = \frac{r}{\tan_b(90^\circ - x)} \quad \text{(TB, Prop. 9, p. 57)}$$

$$\frac{\sin_b x}{\sin_b(90^\circ - x)} = \frac{r}{\tan_b(90^\circ - x)} \quad \text{(TB, Prop. 10, p. 57)}$$

$$\frac{r}{\sin_b x} = \frac{\sec_b(90^\circ - x)}{r} \quad \text{(TB, Prop. 11, p. 57)}$$

$$\frac{\sin_b x}{\tan_b x} = \frac{r}{\sec_b x} \quad \text{(TB, Prop. 12, p. 57)}$$

$$\frac{\sin_b x}{\tan_b x} = \frac{\tan_b(90^\circ - x)}{\sec_b(90^\circ - x)} \quad \text{(TB, Prop. 13, p. 58)}$$

$$\frac{r}{\sec_b x} = \frac{\tan_b(90^\circ - x)}{\sec_b(90^\circ - x)} \quad \text{(TB, Prop. 14, p. 58)}$$

These properties are normally not needed, but one might guess that they could be useful for checking the tangents and secants obtained from the formulæ of chapter 15.

Once Briggs has the tangents and secants, he computes the logarithms. Briggs explains that the logarithms can either be obtained by the radix method described in chapter 14 of the *Arithmetica logarithmica*, or preferably by his propositions 10 and 11:

$$\log \sin_b x - \log \sin_b(90^\circ - x) = \log r - \log \tan_b(90^\circ - x)$$
$$\log r - \log \sin_b x = \log \sec_b(90^\circ - x) - \log r$$

This somewhat abruptly ends Briggs' explanations. The second part of the *Trigonometria britannica* written by Gellibrand contains applications and is not described here.

4 Vlacq's *Trigonometria artificialis* (1633)

Adriaan Vlacq published his *Trigonometria artificialis* [83] the same year as Briggs' *Trigonometria britannica*, and one might wonder whether Vlacq copied some values from Briggs' table, as he did for Briggs' *Arithmetica logarithmica*. This was answered by Glaisher's careful analysis who has shown that Briggs' and Vlacq's tables had in fact been constructed independently [31, p. 444], [61].

5 Decimal system

5.1 Centesimal division of the degree

Briggs perceived the advantage of a centesimal division of the right angles, and he made a step in this direction by dividing the degrees not into minutes, but into hundredths [30, p. 301]. Glaisher considered that if Vlacq had done the same in his *Trigonometria artificialis* (1633) [83], the switch to a centesimal division might have been easier [30, pp. 301–302]. This may well be true, as Vlacq's book was much more widespread than

Briggs', and became the basis of other tables. The fact that the quadrant was still 90° in Briggs' system is actually only a minor point, as the value 90 only plays a marginal role in the computations. But converting degrees, minutes and seconds in fractions of degrees is always cumbersome, and Briggs' change would have alleviated these difficulties.

5.2 Decimal division of the circle

In the chapter 14 of the *Trigonometria britannica*, Briggs actually gives the sines for a quadrant, every $2^\circ\frac{1}{4}$. He also gives the angle assuming the circle is divided in 100 parts. Thus, $2^\circ\frac{1}{4}$ corresponds to 0 hundredths, and 625 thousandths of hundredths.

The division of the quadrant in 25 parts was not followed, except by Mendizábal in 1891 [18].

6 Errors in the tables

An examination of Briggs' tables reveals that the most important computation errors are those of the sines of small angles, and of their logarithms. The last three digits of the first ten sines were given as 313 (+0), 309 (−1), 672 (−2), 085 (−3), 232 (−3), 796 (−4), 461 (−4), 910 (−4), 827 (−4), and 894 (−4), and there are up to four units of error in the last place. These errors seem to decrease when the angle becomes larger. Tangents, secants, and their logarithms seem to be computed very accurately, with usually no more than one or two units of error on the last place. The logarithms of sines also seem to be accurate for larger values of the angles.

The logarithms of sines have large errors for small angles, and the reason may be the difference in the number of significative digits. There are always 15 significative digits in the logarithms of sines, whereas the sines start with only 12 significative digits. A difference of one unit of the last place in the first sine causes a difference of more than 200 units of the last place in the corresponding logarithm. The actual errors can be guessed from the four last digits of the first ten logarithms of sines: 8610 (+17), 3540 (+17), 6652 (+8), 4065 (+17), 0453 (+5), 9835 (+8), 6535 (+10), 6969 (+17), 3372 (+3), 0141 (+5). The errors still appear smaller than one might have anticipated, first, because Briggs certainly used more accurate values for the sines (19 places according to the above description), and second because there is actually a correspondence error. For instance, Briggs should not have found $10+\log\sin 0^\circ.10 = 7.24187\,71471\,0141$ given that his value of the sine is $0.0017453283\,65894$ and that $10+\log 0.0017453283\,65894 = 7.24187714710029$ and $10+\log 0.0017453283\,65895 = 7.24187714710054$. Since a similar observation can be made for all these first values, it is clear that the sines used by Briggs were not those printed in the tables, at least not for the beginning, because the logarithms would be even less accurate than they are.

One might be tempted to make the same observations for the first tangents, as there is even a larger discrepancy in the number of significative digits, but Briggs did not use the values of the tangents to compute their logarithms. Instead, as shown previously, he used previously computed values of the logarithms of the sines, and since the logarithms of the tangents are only given to 10 decimal places, even errors of several 100 units of the last place in the logarithms of sines have barely noticeable consequences in the logarithms of tangents.

It is of course interesting to correlate this with Rheticus' errors in the *Opus palatinum* (1596), since his errors were also due to an insufficient accuracy in the fundamental values.

For more information on Briggs' errors, see in particular Henri Andoyer [3] and Fletcher *et al.* [26, p. 794] who list eleven errors, plus an entire page of errors where the first digit is wrong, apart from those affecting the last digit or two.

7 Structure of the tables and recomputation

The original *Trigonometria britannica* contains an introduction of 110 pages, followed by a section of tables with the frontispice *Canones sinvvm tangentivm secantivm et logarithmorvm pro sinvbvs & tangentibvs, ad Gradus & Graduum Centesimas, & ad Minuta & Secunda Centesimis respondentia.*

The tables were recomputed using the GNU `mpfr` multiple-precision floating-point library developed at INRIA [27], and give the exact values. The comparison of our table and Briggs' will therefore immediately show where Briggs' table contains errors, and this is of course one of the purposes of this reconstruction. Apart from the change in accuracy, we have tried to be as faithful as possible to the original tables. We have however added some values in a few cases where Briggs had left blanks or put obviously incorrect values. The original tables had for instance $\log \sin 0 = \log \tan 0 = 0$ and we have replaced these two values by *Infinita* which was used by Briggs in other places. There are also some other minor changes related to commas.

8 Acknowledgements

It is a pleasure to thank Ian Bruce for his fruitful interaction.

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[15] **Note on the titles of the works:** Original titles come with many idiosyncrasies and features (line splitting, size, fonts, etc.) which can often not be reproduced in a list of references. It has therefore seemed pointless to capitalize works according to conventions which not only have no relation with the original work, but also do not restore the title entirely. In the following list of references, most title words (except in German) will therefore be left uncapitalized. The names of the authors have also been homogenized and initials expanded, as much as possible.

The reader should keep in mind that this list is not meant as a facsimile of the original works. The original style information could no doubt have been added as a note, but we have not done it here.

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CANONES

S I N V V M
T A N G E N T I V M
S E C A N T I V M

ET

LOGARITHMORVM

pro SINVBVS & TANGENTIBVS,

ad Gradus & Graduum Centesimas,

& ad Minuta & Secunda Centesimis respondentia.

0. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	0	0	1 00000,00000	*Infinita*	*Infinita*	0: 0
	17,45329,24313	17,45329	152	*Infinita*	*Infinita*	
1	17,45329,24313	17,45329	1 00000,00152	6,24187,73653,8593	6,24187,73720	0:36
	17,45329,18997	17,45330	457	30102,99890,4930	30103,00089	
2	34,90658,43310	34,90659	1 00000,00609	6,54290,73544,3523	6,54290,73809	1:12
	17,45329,08364	17,45329	762	17609,12480,3121	17609,12811	
3	52,35987,51674	52,35988	1 00000,01371	6,71899,86024,6644	6,71899,86620	1:48
	17,45328,92414	17,45330	1066	12493,87211,7404	12493,87675	
4	69,81316,44088	69,81318	1 00000,02437	6,84393,73236,4048	6,84393,74295	2:24
	17,45328,71147	17,45330	1371	9690,99931,6400	9691,00527	
5	87,26645,15235	87,26648	1 00000,03808	6,94084,73168,0448	6,94084,74822	3: 0
	17,45328,44565	17,45331	1675	7918,12217,9379	7918,12945	
6	104,71973,59800	104,71979	1 00000,05483	7,02002,85385,9827	7,02002,87767	3:36
	17,45328,12665	17,45332	1980	6694,67609,6698	6694,68470	
7	122,17301,72465	122,17311	1 00000,07463	7,08697,52995,6525	7,08697,56237	4:12
	17,45327,75449	17,45332	2285	5799,19139,0427	5799,20131	
8	139,62629,47914	139,62643	1 00000,09748	7,14496,72134,6952	7,14496,76368	4:48
	17,45327,32917	17,45333	2589	5115,24849,6417	5115,25974	
9	157,07956,80831	157,07976	1 00000,12337	7,19611,96984,3369	7,19612,02342	5:24
	17,45326,85067	17,45334	2894	4575,74486,6767	4575,75744	
10	174,53283,65898	174,53310	1 00000,15231	7,24187,71471,0136	7,24187,78086	6: 0
	17,45326,31902	17,45335	3198	4139,26388,5544	4139,27777	
11	191,98609,97800	191,98645	1 00000,18429	7,28326,97859,5680	7,28327,05863	6:36
	17,45325,73419	17,45337	3503	3778,85101,7681	3778,86623	
12	209,43935,71219	209,43982	1 00000,21932	7,32105,82961,3361	7,32105,92486	7:12
	17,45325,09621	17,45337	3808	3476,20511,3684	3476,22166	
13	226,89260,80840	226,89319	1 00000,25740	7,35582,03472,7045	7,35582,14652	7:48
	17,45324,40505	17,45339	4113	3218,46238,3923	3218,48024	
14	244,34585,21345	244,34658	1 00000,29853	7,38800,49711,0968	7,38800,62676	8:24
	17,45323,66073	17,45341	4417	2996,31594,3547	2996,33513	
15	261,79908,87418	261,79999	1 00000,34270	7,41796,81305,4515	7,41796,96189	9: 0
	17,45322,86324	17,45342	4721	2802,86552,4849	2802,88603	
16	279,25231,73742	279,25341	1 00000,38991	7,44599,67857,9364	7,44599,84792	9:36
	17,45322,01260	17,45343	5026	2632,88659,6079	2632,90842	
17	296,70553,75002	296,70684	1 00000,44017	7,47232,56517,5443	7,47232,75634	10:12
	17,45321,10878	17,45346	5331	2482,35065,5368	2482,37381	
18	314,15874,85880	314,16030	1 00000,49348	7,49714,91583,0811	7,49715,13015	10:48
	17,45320,15179	17,45347	5636	2348,10142,6837	2348,12590	
19	331,61195,01059	331,61377	1 00000,54984	7,52063,01725,7648	7,52063,25605	11:24
	17,45319,14165	17,45350	5940	2227,63087,2021	2227,65667	
20	349,06514,15224	349,06727	1 00000,60924	7,54290,64812,9669	7,54290,91272	12: 0
	17,45318,07833	17,45351	6245	2118,92086,6919	2118,94798	
21	366,51832,23057	366,52078	1 00000,67169	7,56409,56899,6588	7,56409,86070	12:36
	17,45316,96186	17,45354	6549	2020,32912,7774	2020,35758	
22	383,97149,19243	383,97432	1 00000,73718	7,58429,89812,4362	7,58430,21828	13:12
	17,45315,79221	17,45356	6854	1930,50559,7503	1930,53536	
23	401,42464,98464	401,42788	1 00000,80572	7,60360,40372,1865	7,60360,75364	13:48
	17,45314,56940	17,45359	7158	1848,33020,6386	1848,36130	
24	418,87779,55404	418,88147	1 00000,87730	7,62208,73392,8251	7,62209,11494	14:24
	17,45313,29343	17,45361	7464	1772,86589,2048	1772,89830	
25	436,33092,84747	436,33508	1 00000,95194	7,63981,59982,0299	7,63982,01324	15: 0
	17,45311,96428	17,45364	7768	1703,32268,4901	1703,35642	
26	453,78404,81175	453,78872	1 00001,02962	7,65684,92250,5200	7,65685,36966	15:36
	17,45310,58198	17,45367	8072	1639,02993,2860	1639,06499	
27	471,23715,39373	471,24239	1 00001,11034	7,67323,95243,8060	7,67324,43465	16:12
	17,45309,14652	17,45369	8377	1579,41459,1385	1579,45097	
28	488,69024,54025	488,69608	1 00001,19411	7,68903,36702,9445	7,68903,88562	16:48
	17,45307,65787	17,45373	8682	1523,98408,7755	1524,02179	
29	506,14332,19812	506,14981	1 00001,28093	7,70427,35111,7200	7,70427,90741	17:24
	17,45306,11608	17,45375	8986	1472,31267,3171	1472,35170	
30	523,59638,31420	523,60356	1 00001,37079	7,71899,66379,0371	7,71900,25911	18: 0
	17,45304,52110	17,45379	9291	1424,03046,1580	1424,07082	
31	541,04942,83530	541,05735	1 00001,46370	7,73323,69425,1951	7,73324,32993	18:36
	17,45302,87298	17,45382	9596	1378,81455,7700	1378,85623	
32	558,50245,70828	558,51117	1 00001,55966	7,74702,50880,9651	7,74703,18616	19:12
	17,45301,17169	17,45385	9900	1336,38182,3954	1336,42482	
33	575,95546,87997	575,96502	1 00001,65866	7,76038,89063,3605	7,76039,61098	19:48
	17,45299,41722	17,45389	10205	1296,48294,3610	1296,52726	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	1,00000,00000,00000 152,30871	*Infinita* *Infinita*	*Infinita* *Infinita*	10,00000,00000,0000 66,1468	*Infinita* *Infinita*	60: 0
99	99999,99847,69129 456,92612	5729 57789,31306 2864 78903,38318	5729 57798,03971 2864 78894,65653	9,99999,99933,8532 198,4405	13,75812,26280 30103,00089	59:24
98	99999,99390,76517 761,54353	2864 78885,92988 954 92971,67290	2864 78903,38318 954 92962,94626	9,99999,99735,4127 330,7342	13,45709,26191 17609,12811	58:48
97	99999,98629,22164 1066,16090	1909 85914,25698 477 46488,74533	1909 85940,43692 477 46480,01869	9,99999,99404,6785 463,0279	13,28100,13380 12493,87675	58:12
96	99999,97563,06074 1370,77825	1432 39425,51165 286 47895,57431	1432 39460,41823 286 47886,84765	9,99999,98941,6506 595,3216	13,15606,25705 9691,00527	57:36
95	99999,96192,28249 1675,39555	1145 91529,93734 190 98598,98879	1145 91573,57058 190 98590,26215	9,99999,98346,3290 727,6154	13,05915,25178 7918,12945	57: 0
94	99999,94516,88694 1980,01280	954 92930,94855 136 41858,08279	954 92983,30843 136 41849,35613	9,99999,97618,7136 859,9092	12,97997,12233 6694,68470	56:24
93	99999,92536,87414 2284,62999	818 51072,86576 102 31395,01653	818 51133,95230 102 31386,28989	9,99999,96758,8044 992,2030	12,91302,43763 5799,20131	55:48
92	99999,90252,24415 2589,24711	716 19677,84923 79 57752,97236	716 19747,66241 79 57744,24571	9,99999,95766,6014 1124,4970	12,85503,23632 5115,25974	55:12
91	99999,87662,99704 2893,86416	636 61924,87687 63 66203,54144	636 62003,41670 63 66194,81479	9,99999,94642,1044 1256,7910	12,80387,97658 4575,75744	54:36
90	99999,84769,13288 3198,48112	572 95721,33543 52 08713,04623	572 95808,60191 52 08704,31957	9,99999,93385,3134 1389,0850	12,75812,21914 4139,27777	54: 0
89	99999,81570,65176 3503,09797	520 87008,28920 43 40595,17482	520 87104,28234 43 40586,44817	9,99999,91996,2284 1521,3792	12,71672,94137 3778,86623	53:24
88	99999,78067,55379 3807,71472	477 46413,11438 36 72812,19682	477 46517,83417 36 72803,47016	9,99999,90474,8492 1653,6734	12,67894,07514 3476,22166	52:48
87	99999,74259,83907 4112,33136	440 73600,91756 31 48125,57123	440 73714,36401 31 48116,84457	9,99999,88821,1758 1785,9678	12,64417,85348 3218,48024	52:12
86	99999,70147,50771 4416,94786	409 25475,34633 27 28376,27078	409 25597,51944 27 28367,54412	9,99999,87035,2080 1918,2623	12,61199,37324 2996,33513	51:36
85	99999,65730,55985 4721,56424	381 97099,07555 23 87329,96415	381 97229,97532 23 87321,23749	9,99999,85116,9457 2050,5568	12,58203,03811 2802,88603	51: 0
84	99999,61008,99561 5026,18048	358 09769,11140 21 06468,29987	358 09908,73783 21 06459,57321	9,99999,83066,3889 2182,8515	12,55400,15208 2632,90842	50:24
83	99999,55982,81513 5330,79655	337 03300,81153 18 72416,91297	337 03449,16462 18 72408,18630	9,99999,80883,5374 2315,1463	12,52767,24366 2482,37381	49:48
82	99999,50652,01858 5635,41247	318 30883,89856 16 75321,00822	318 31040,97832 16 75312,28155	9,99999,78568,3911 2447,4413	12,50284,86985 2348,12590	49:12
81	99999,45016,60611 5940,02821	301 55562,89034 15 07789,48918	301 55728,69677 15 07780,76250	9,99999,76120,9498 2579,7364	12,47936,74395 2227,65667	48:36
80	99999,39076,57790 6244,64377	286 47773,40116 13 64191,04428	286 47947,93427 13 64182,31761	9,99999,73541,2134 2712,0317	12,45709,08728 2118,94798	48: 0
79	99999,32831,93413 6549,25915	272 83582,35688 12 40174,20551	272 83765,61666 12 40165,47883	9,99999,70829,1817 2844,3272	12,43590,13930 2020,35758	47:24
78	99999,26282,67498 6853,87432	260 43408,15137 11 32333,47614	260 43600,13783 11 32324,74947	9,99999,67984,8545 2976,6227	12,41569,78172 1930,53536	46:48
77	99999,19428,80066 7158,48928	249 11074,67523 10 37972,83795	249 11275,38836 10 37964,11126	9,99999,65008,2318 3108,9186	12,39639,24636 1848,36130	46:12
76	99999,12270,31138 7463,10404	238 73101,83728 9 54935,47634	238 73311,27710 9 54926,74965	9,99999,61899,3132 3241,2145	12,37790,88506 1772,89830	45:36
75	99999,04807,20734 7767,71855	229 18166,36094 8 81479,34875	229 18384,52745 8 81470,62207	9,99999,58658,0987 3373,5108	12,36017,98676 1703,35642	45: 0
74	99998,97039,48879 8072,33283	220 36687,01219 8 16185,01314	220 36913,90538 8 16176,28644	9,99999,55284,5879 3505,8071	12,34314,63034 1639,06499	44:24
73	99998,88967,15596 8376,94687	212 20501,99905 7 57886,49918	212 20737,61894 7 57877,77249	9,99999,51778,7808 3638,1037	12,32675,56535 1579,45097	43:48
72	99998,80590,20909 8681,56065	204 62615,49987 7 05618,86598	204 62859,84645 7 05610,13928	9,99999,48140,6771 3770,4005	12,31096,11438 1524,02179	43:12
71	99998,71908,64844 8986,17417	197 56996,63389 6 58577,99611	197 57249,70717 6 58569,26940	9,99999,44370,2766 3902,6976	12,29572,09259 1472,35170	42:36
70	99998,62922,47427 9290,78741	190 98418,63778 6 16089,46847	190 98680,43777 6 16080,74177	9,99999,40467,5790 4034,9949	12,28099,74089 1424,07082	42: 0
69	99998,53631,68686 9595,40038	184 82329,16931 5 77584,24031	184 82599,69600 5 77575,51360	9,99999,36432,5841 4167,2925	12,26675,67007 1378,85623	41:24
68	99998,44036,28648 9900,01304	179 04744,92900 5 42579,48744	179 05024,18240 5 42570,76071	9,99999,32265,2916 4299,5902	12,25296,81384 1336,42482	40:48
67	99998,34136,27344 10204,62541	173 62165,44156 5 10663,38922	173 62453,42169 5 10654,66250	9,99999,27965,7014 4431,8883	12,23960,38902 1296,52726	40:12

GRAD. 89.

0. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	575,95546,87997 17,45299,41722	575,96502 17,45389	1 00001,65866 10205	7,76038,89063,3605 1296,48294,3610	7,76039,61098 1296,52726	19:48
34	593,40846,29719 17,45297,60959	593,41891 17,45393	1 00001,76071 10510	7,77335,37357,7215 1258,89751,6994	7,77336,13824 1258,94316	20:24
35	610,86143,90678 17,45295,74881	610,87284 17,45396	1 00001,86581 10814	7,78594,27109,4209 1223,42998,6911	7,78595,08140 1223,47695	21: 0
36	628,31439,65559 17,45293,83485	628,32680 17,45400	1 00001,97395 11119	7,79817,70108,1120 1189,90623,4198	7,79818,55835 1189,95452	21:36
37	645,76733,49044 17,45291,86773	645,78080 17,45404	1 00002,08514 11424	7,81007,60731,5318 1158,17071,8226	7,81008,51287 1158,22033	22:12
38	663,22025,35817 17,45289,84745	663,23484 17,45408	1 00002,19938 11728	7,82165,77803,3544 1128,08406,3231	7,82166,73320 1128,13500	22:48
39	680,67315,20562 17,45287,77400	680,68892 17,45412	1 00002,31666 12033	7,83293,86209,6775 1099,52101,1426	7,83294,86820 1099,57327	23:24
40	698,12602,97962 17,45285,64738	698,14304 17,45417	1 00002,43699 12337	7,84393,38310,8201 1072,36867,9473	7,84394,44147 1072,42226	24: 0
41	715,57888,62700 17,45283,46761	715,59721 17,45421	1 00002,56036 12643	7,85465,75178,7674 1046,52506,7129	7,85466,86373 1046,57997	24:36
42	733,03172,09461 17,45281,23466	733,05142 17,45425	1 00002,68679 12946	7,86512,27685,4803 1021,89777,6497	7,86513,44370 1021,95400	25:12
43	750,48453,32927 17,45278,94856	750,50567 17,45430	1 00002,81625 13252	7,87534,17463,1300 998,40290,8005	7,87535,39770 998,46045	25:48
44	767,93732,27783 17,45276,60928	767,95997 17,45434	1 00002,94877 13556	7,88532,57753,9305 975,96410,5276	7,88533,85815 976,02298	26:24
45	785,39008,88711 17,45274,21685	785,41431 17,45440	1 00003,08433 13861	7,89508,54164,4581 954,51172,6000	7,89509,88113 954,57192	27: 0
46	802,84283,10396 17,45271,77126	802,86871 17,45444	1 00003,22294 14165	7,90463,05337,0581 933,98211,9806	7,90464,45305 934,04364	27:36
47	820,29554,87522 17,45269,27249	820,32315 17,45449	1 00003,36459 14471	7,91397,03549,0387 914,31699,7394	7,91398,49669 914,37984	28:12
48	837,74824,14771 17,45266,72056	837,77764 17,45454	1 00003,50930 14774	7,92311,35248,7781 895,46287,7715	7,92312,87653 895,52704	28:48
49	855,20090,86827 17,45264,11547	855,23218 17,45460	1 00003,65704 15080	7,93206,81536,5496 877,37060,2187	7,93208,40357 877,43609	29:24
50	872,65354,98374 17,45261,45722	872,68678 17,45465	1 00003,80784 15384	7,94084,18596,7683 859,99490,6643	7,94085,83966 860,06172	30: 0
51	890,10616,44096 17,45258,74579	890,14143 17,45470	1 00003,96168 15689	7,94944,18087,4326 843,29404,3152	7,94945,90138 843,36217	30:36
52	907,55875,18675 17,45255,98122	907,59613 17,45476	1 00004,11857 15993	7,95787,47491,7478 827,22944,5078	7,95789,26355 827,29890	31:12
53	925,01131,16797 17,45253,16347	925,05089 17,45481	1 00004,27850 16299	7,96614,70436,2556 811,76542,9710	7,96616,56245 811,83621	31:48
54	942,46384,33144 17,45250,29256	942,50570 17,45487	1 00004,44149 16603	7,97426,46979,2266 796,86893,3634	7,97428,39866 796,94104	32:24
55	959,91634,62400 17,45247,36849	959,96057 17,45493	1 00004,60752 16907	7,98223,33872,5900 782,50927,6715	7,98225,33970 782,58270	33: 0
56	977,36881,99249 17,45244,39125	977,41550 17,45499	1 00004,77659 17212	7,99005,84800,2615 768,65795,1160	7,99007,92240 768,73270	33:36
57	994,82126,38374 17,45241,36086	994,87049 17,45506	1 00004,94871 17517	7,99774,50595,3775 755,28843,2589	7,99776,65510 755,36450	34:12
58	1012,27367,74460 17,45238,27729	1012,32555 17,45511	1 00005,12388 17822	8,00529,79438,6364 742,37601,0477	8,00532,01960 742,45341	34:48
59	1029,72606,02189 17,45235,14057	1029,78066 17,45517	1 00005,30210 18126	8,01272,17039,6841 729,89763,5718	8,01274,47301 729,97635	35:24
60	1047,17841,16246 17,45231,95068	1047,23583 17,45524	1 00005,48336 18431	8,02002,06803,2559 717,83178,3291	8,02004,44936 717,91183	36: 0
61	1064,63073,11314 17,45228,70763	1064,69107 17,45530	1 00005,66767 18736	8,02719,89981,5850 706,15832,8339	8,02722,36119 706,23969	36:36
62	1082,08301,82077 17,45225,41141	1082,14637 17,45537	1 00005,85503 19041	8,03426,05814,4189 694,85843,4134	8,03428,60088 694,94112	37:12
63	1099,53527,23218 17,45222,06204	1099,60174 17,45544	1 00006,04544 19345	8,04120,91657,8323 683,91445,0643	8,04123,54200 683,99846	37:48
64	1116,98749,29422 17,45218,65950	1117,05718 17,45551	1 00006,23889 19650	8,04804,83102,8966 673,30982,2518	8,04807,54046 673,39516	38:24
65	1134,43967,95372 17,45215,20380	1134,51269 17,45557	1 00006,43539 19954	8,05478,14085,1484 663,02900,5533	8,05480,93562 663,11566	39: 0
66	1151,89183,15752 17,45211,69494	1151,96826 17,45564	1 00006,63493 20260	8,06141,16985,7017 653,05739,0537	8,06144,05128 653,14537	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99998,34136,27344	173 62165,44156	173 62453,42169	9,99999,27965,7014	12,23960,38902	40:12
	10204,62541	5 10663,38922	5 10654,66250	4431,8883	1296,52726	
66	99998,23931,64803	168 51502,05234	168 51798,75919	9,99999,23533,8131	12,22663,86176	39:36
	10509,23746	4 81482,95657	4 81474,22985	4564,1866	1258,94316	
65	99998,13422,41057	163 70019,09577	163 70324,52934	9,99999,18969,6265	12,21404,91860	39: 0
	10813,84920	4 54734,22664	4 54725,49991	4696,4852	1223,47695	
64	99998,02608,56137	159 15284,86913	159 15599,02943	9,99999,14273,1413	12,20181,44165	38:24
	11118,46060	4 30154,31266	4 30145,58592	4828,7841	1189,95452	
63	99997,91490,10077	154 85130,55647	154 85453,44351	9,99999,09444,3572	12,18991,48713	37:48
	11423,07168	4 07514,91819	4 07506,19145	4961,0832	1158,22033	
62	99997,80067,02909	150 77615,63828	150 77947,25206	9,99999,04483,2740	12,17833,26680	37:12
	11727,68239	3 86617,01561	3 86608,28887	5093,3828	1128,13500	
61	99997,68339,34670	146 90998,62267	146 91338,96319	9,99998,99389,8912	12,16705,13180	36:36
	12032,29275	3 67286,45572	3 67277,72897	5225,6825	1099,57327	
60	99997,56307,05395	143 23712,16695	143 24061,23422	9,99998,94164,2087	12,15605,55853	36: 0
	12336,90275	3 49370,32705	3 49361,60030	5357,9827	1072,42226	
59	99997,43970,15120	139 74341,83990	139 74699,63392	9,99998,88806,2260	12,14533,13627	35:24
	12641,51237	3 32733,92185	3 32725,19509	5490,2831	1046,57997	
58	99997,31328,63883	136 41607,91805	136 41974,43883	9,99998,83315,9429	12,13486,55630	34:48
	12946,12161	3 17258,19609	3 17249,46932	5622,5839	1021,95400	
57	99997,18382,51722	133 24349,72196	133 24724,96951	9,99998,77693,3590	12,12464,60230	34:12
	13250,73044	3 02837,63343	3 02828,90666	5754,8850	998,46045	
56	99997,05131,78678	130 21512,08853	130 21896,06285	9,99998,71938,4740	12,11466,14185	33:36
	13555,33888	2 89378,44164	2 89369,71486	5887,1864	976,02298	
55	99996,91576,44790	127 32133,64689	127 32526,34799	9,99998,66051,2876	12,10490,11887	33: 0
	13859,94691	2 76797,02322	2 76788,29643	6019,4883	954,57192	
54	99996,77716,50099	124 55336,62367	124 55738,05156	9,99998,60031,7993	12,09535,54695	32:24
	14164,55451	2 65018,67405	2 65009,94727	6151,7905	934,04364	
53	99996,63551,94648	121 90317,94962	121 90728,10429	9,99998,53880,0088	12,08601,50331	31:48
	14469,16167	2 53976,47171	2 53967,74491	6284,0930	914,37984	
52	99996,49082,78481	119 36341,47791	119 36760,35938	9,99998,47595,9158	12,07687,12347	31:12
	14773,76841	2 43610,32258	2 43601,59578	6416,3960	895,52704	
51	99996,34309,01640	116 92731,15533	116 93158,76360	9,99998,41179,5198	12,06791,59643	30:36
	15078,37469	2 33866,14240	2 33857,41559	6548,6994	877,43609	
50	99996,19230,64171	114 58865,01293	114 59301,34801	9,99998,34630,8204	12,05914,16034	30: 0
	15382,98050	2 24695,14928	2 24686,42246	6681,0031	860,06172	
49	99996,03847,66121	112 34169,86365	112 34614,92555	9,99998,27949,8173	12,05054,09862	29:24
	15687,58586	2 16053,25192	2 16044,52510	6813,3072	843,36217	
48	99995,88160,07535	110 18116,61173	110 18570,40045	9,99998,21136,5101	12,04210,73645	28:48
	15992,19073	2 07900,51856	2 07891,79173	6945,6118	827,29890	
47	99995,72167,88462	108 10216,09317	108 10678,60872	9,99998,14190,8983	12,03383,43755	28:12
	16296,79512	2 00200,71484	2 00191,98800	7077,9168	811,83621	
46	99995,55871,08950	106 10015,37833	106 10486,62072	9,99998,07112,9815	12,02571,60134	27:36
	16601,39901	1 92920,90040	1 92912,17356	7210,2221	796,94104	
45	99995,39269,69049	104 17094,47793	104 17574,44716	9,99997,99902,7594	12,01774,66030	27: 0
	16906,00239	1 86031,07603	1 86022,34918	7342,5281	782,58270	
44	99995,22363,68810	102 31063,40190	102 31552,09798	9,99997,92560,2313	12,00992,07760	26:24
	17210,60527	1 79503,87400	1 79495,14714	7474,8343	768,73270	
43	99995,05153,08283	100 51559,52790	100 52056,95084	9,99997,85085,3970	12,00223,34490	25:48
	17515,20760	1 73314,28586	1 73305,55899	7607,1412	755,36450	
42	99994,87637,87523	98 78245,24204	98 78751,39185	9,99997,77478,2558	11,99467,98040	25:12
	17819,80942	1 67439,42254	1 67430,69567	7739,4483	742,45341	
41	99994,69818,06581	97 10805,81950	97 11320,69618	9,99997,69738,8075	11,98725,52699	24:36
	18124,41069	1 61858,30239	1 61849,57551	7871,7560	729,97635	
40	99994,51693,65512	95 48947,51711	95 49471,12067	9,99997,61867,0515	11,97995,55064	24: 0
	18429,01140	1 56551,66356	1 56542,93667	8004,0642	717,91183	
39	99994,33264,64372	93 92395,85355	93 92928,18400	9,99997,53862,9873	11,97277,63881	23:24
	18733,61156	1 51501,79757	1 51493,07067	8136,3729	706,23969	
38	99994,14531,03216	92 40894,05598	92 41435,11333	9,99997,45726,6144	11,96571,39912	22:48
	19038,21115	1 46692,40140	1 46683,67449	8268,6820	694,94112	
37	99993,95492,82101	90 94201,65458	90 94751,43884	9,99997,37457,9324	11,95876,45800	22:12
	19342,81015	1 42108,44567	1 42099,71876	8400,9917	683,99846	
36	99993,76150,01086	89 52093,20891	89 52651,72008	9,99997,29056,9407	11,95192,45954	21:36
	19647,40856	1 37736,05712	1 37727,33020	8533,3019	673,39516	
35	99993,56502,60230	88 14357,15179	88 14924,38988	9,99997,20523,6388	11,94519,06438	21: 0
	19952,00638	1 33562,41352	1 33553,68659	8665,6125	663,11566	
34	99993,36550,59592	86 80794,73827	86 81370,70329	9,99997,11858,0263	11,93855,94872	20:24
	20256,60359	1 29575,64947	1 29566,92253	8797,9238	653,14537	

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0. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	1169,34394,85246	1169,42390	1 00006,83753	8,06794,22724,7554	8,06797,19665	40:12
	17,45208,13291	17,45572	20564	643,38123,4191	643,47053	
68	1186,79602,98537	1186,87962	1 00007,04317	8,07437,60848,1745	8,07440,66718	40:48
	17,45204,51773	17,45579	20869	633,98759,5761	634,07822	
69	1204,24807,50310	1204,33541	1 00007,25186	8,08071,59607,7506	8,08074,74540	41:24
	17,45200,84937	17,45586	21173	624,86427,9367	624,95623	
70	1221,70008,35247	1221,79127	1 00007,46359	8,08696,46035,6873	8,08699,70163	42: 0
	17,45197,12787	17,45593	21478	615,99978,1157	616,09306	
71	1239,15205,48034	1239,24720	1 00007,67837	8,09312,46013,8030	8,09315,79469	42:36
	17,45193,35319	17,45601	21783	607,38324,0902	607,47783	
72	1256,60398,83353	1256,70321	1 00007,89620	8,09919,84337,8932	8,09923,27252	43:12
	17,45189,52535	17,45609	22088	599,00439,7608	599,10032	
73	1274,05588,35888	1274,15930	1 00008,11708	8,10518,84777,6540	8,10522,37284	43:48
	17,45185,64436	17,45616	22392	590,85354,8749	590,95079	
74	1291,50774,00324	1291,61546	1 00008,34100	8,11109,70132,5289	8,11113,32363	44:24
	17,45181,71020	17,45625	22698	582,92151,2775	583,02007	
75	1308,95955,71344	1309,07171	1 00008,56798	8,11692,62283,8064	8,11696,34370	45: 0
	17,45177,72289	17,45632	23002	575,19959,4618	575,29949	
76	1326,41133,43633	1326,52803	1 00008,79800	8,12267,82243,2682	8,12271,64319	45:36
	17,45173,68240	17,45641	23306	567,67955,3884	567,78076	
77	1343,86307,11873	1343,98444	1 00009,03106	8,12835,50198,6566	8,12839,42395	46:12
	17,45169,58876	17,45648	23612	560,35357,5520	560,45611	
78	1361,31476,70749	1361,44092	1 00009,26718	8,13395,85556,2086	8,13399,88006	46:48
	17,45165,44196	17,45657	23916	553,21424,2720	553,31810	
79	1378,76642,14945	1378,89749	1 00009,50634	8,13949,06980,4806	8,13953,19816	47:24
	17,45161,24200	17,45665	24221	546,25451,1879	546,35969	
80	1396,21803,39145	1396,35414	1 00009,74855	8,14495,32431,6685	8,14499,55785	48: 0
	17,45156,98888	17,45674	24526	539,46768,9404	539,57419	
81	1413,66960,38033	1413,81088	1 00009,99381	8,15034,79200,6089	8,15039,13204	48:36
	17,45152,68259	17,45683	24830	532,84741,0243	532,95524	
82	1431,12113,06292	1431,26771	1 00010,24211	8,15567,63941,6332	8,15572,08728	49:12
	17,45148,32314	17,45691	25135	526,38761,7975	526,49677	
83	1448,57261,38606	1448,72462	1 00010,49346	8,16094,02703,4307	8,16098,58405	49:48
	17,45143,91055	17,45700	25441	520,08254,6323	520,19302	
84	1466,02405,29661	1466,18162	1 00010,74787	8,16614,10958,0630	8,16618,77707	50:24
	17,45139,44477	17,45709	25744	513,92670,1985	514,03850	
85	1483,47544,74138	1483,63871	1 00011,00531	8,17128,03628,2615	8,17132,81557	51: 0
	17,45134,92586	17,45718	26050	507,91484,8673	508,02796	
86	1500,92679,66724	1501,09589	1 00011,26581	8,17635,95113,1288	8,17640,84353	51:36
	17,45130,35377	17,45727	26354	502,04199,2253	502,15644	
87	1518,37810,02101	1518,55316	1 00011,52935	8,18137,99312,3541	8,18142,99997	52:12
	17,45125,72852	17,45736	26660	496,30336,6902	496,41913	
88	1535,82935,74953	1536,01052	1 00011,79595	8,18634,29649,0443	8,18639,41910	52:48
	17,45121,05012	17,45746	26964	490,69442,2223	490,81151	
89	1553,28056,79965	1553,46798	1 00012,06559	8,19124,99091,2666	8,19130,23061	53:24
	17,45116,31856	17,45755	27268	485,21081,1189	485,32923	
90	1570,73173,11821	1570,92553	1 00012,33827	8,19610,20172,3855	8,19615,55984	54: 0
	17,45111,53383	17,45765	27574	479,84837,8925	479,96811	
91	1588,18284,65204	1588,38318	1 00012,61401	8,20090,05010,2780	8,20095,52795	54:36
	17,45106,69595	17,45774	27878	474,60315,2192	474,72421	
92	1605,63391,34799	1605,84092	1 00012,89279	8,20564,65325,4972	8,20570,25216	55:12
	17,45101,80492	17,45785	28184	469,47132,9583	469,59372	
93	1623,08493,15291	1623,29877	1 00013,17463	8,21034,12458,4555	8,21039,84588	55:48
	17,45096,86071	17,45794	28488	464,44927,2318	464,57297	
94	1640,53590,01362	1640,75671	1 00013,45951	8,21498,57385,6873	8,21504,41885	56:24
	17,45091,86336	17,45804	28793	459,53349,5655	459,65853	
95	1657,98681,87698	1658,21475	1 00013,74744	8,21958,10735,2528	8,21964,07738	57: 0
	17,45086,81283	17,45814	29097	454,72066,0809	454,84701	
96	1675,43768,68981	1675,67289	1 00014,03841	8,22412,82801,3337	8,22418,92439	57:36
	17,45081,70917	17,45825	29403	450,00756,7401	450,13524	
97	1692,88850,39898	1693,13114	1 00014,33244	8,22862,83558,0738	8,22869,05963	58:12
	17,45076,55233	17,45834	29707	445,39114,6354	445,52015	
98	1710,33926,95131	1710,58948	1 00014,62951	8,23308,22672,7092	8,23314,57978	58:48
	17,45071,34234	17,45846	30012	440,86845,3230	440,99877	
99	1727,78998,29365	1728,04794	1 00014,92963	8,23749,09518,0322	8,23755,57855	59:24
	17,45066,07919	17,45855	30317	436,43666,1964	436,56831	
100	1745,24064,37284	1745,50649	1 00015,23280	8,24185,53184,2286	8,24192,14686	60: 0
	17,45060,76288	17,45867	30622	432,09305,8977	432,22603	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99993,16293,99233 20561,20018	85 51219,08880 1 25764,77208	85 51803,78076 1 25756,04513	9,99997,03060,1025 8930,2355	11,93202,80335 643,47053	19:48
32	99992,95732,79215 20865,79615	84 25454,31672 1 22119,58501	84 26047,73563 1 22110,85805	9,99996,94129,8670 9062,5478	11,92559,33282 634,07822	19:12
31	99992,74866,99600 21170,39148	83 03334,73171 1 18630,62024	83 03936,87758 1 18621,89328	9,99996,85067,3192 9194,8607	11,91925,25460 624,95623	18:36
30	99992,53696,60452 21474,98616	81 84704,11147 1 15289,07652	81 85314,98430 1 15280,34954	9,99996,75872,4585 9327,1741	11,91300,29837 616,09306	18: 0
29	99992,32221,61836 21779,58020	80 69415,03495 1 12086,76379	80 70034,63476 1 12078,03680	9,99996,66545,2844 9459,4881	11,90684,20531 607,47783	17:24
28	99992,10442,03816 22084,17356	79 57328,27116 1 09016,05294	79 57956,59796 1 09007,32595	9,99996,57085,7963 9591,8026	11,90076,72748 599,10032	16:48
27	99991,88357,86460 22388,76626	78 48312,21822 1 06069,83038	78 48949,27201 1 06061,10337	9,99996,47493,9937 9724,1178	11,89477,62716 590,95079	16:12
26	99991,65969,09834 22693,35827	77 42242,38784 1 03241,45673	77 42888,16864 1 03232,72971	9,99996,37769,8759 9856,4335	11,88886,67637 583,02007	15:36
25	99991,43275,74007 22997,94959	76 39000,93111 1 00524,72939	76 39655,43893 1 00516,00237	9,99996,27913,4424 9988,7499	11,88303,65630 575,29949	15: 0
24	99991,20277,79048 23302,54022	75 38476,20172 97913,84858	75 39139,43656 97905,12155	9,99996,17924,6925 10121,0668	11,87728,35681 567,78076	14:24
23	99990,96975,25026 23607,13012	74 40562,35314 95403,38626	74 41234,31501 95394,65921	9,99996,07803,6257 10253,3843	11,87160,57605 560,45611	13:48
22	99990,73368,12014 23911,71932	73 45158,96688 92988,25796	73 45839,65580 92979,53091	9,99995,97550,2414 10385,7025	11,86600,11994 553,31810	13:12
21	99990,49456,40082 24216,30778	72 52170,70892 90663,69697	72 52860,12489 90654,96989	9,99995,87164,5389 10518,0214	11,86046,80184 546,35969	12:36
20	99990,25240,09304 24520,89550	71 61507,01195 88425,23082	71 62205,15500 88416,50375	9,99995,76646,5175 10650,3408	11,85500,44215 539,57419	12: 0
19	99990,00719,19754 24825,48249	70 73081,78113 86268,65978	70 73788,65125 86259,93270	9,99995,65996,1767 10782,6610	11,84960,86796 532,95524	11:24
18	99989,75893,71505 25130,06871	69 86813,12135 84190,03710	69 87528,71855 84181,30999	9,99995,55213,5157 10914,9817	11,84427,91272 526,49677	10:48
17	99989,50763,64634 25434,65417	69 02623,08425 82185,65093	69 03347,40856 82176,92383	9,99995,44298,5340 11047,3031	11,83901,41595 520,19302	10:12
16	99989,25328,99217 25739,23885	68 20437,43332 80252,00781	68 21170,48473 80243,28069	9,99995,33251,2309 11179,6252	11,83381,22293 514,03850	9:36
15	99988,99589,75332 26043,82274	67 40185,42551 78385,81736	67 40927,20404 78377,09022	9,99995,22071,6057 11311,9480	11,82867,18443 508,02796	9: 0
14	99988,73545,93058 26348,40586	66 61799,60815 76583,97830	66 62550,11382 76575,25116	9,99995,10759,6577 11444,2715	11,82359,15647 502,15644	8:24
13	99988,47197,52472 26652,98815	65 85215,62985 74843,56557	65 85974,86266 74834,83841	9,99994,99315,3862 11576,5957	11,81857,00003 496,41913	7:48
12	99988,20544,53657 26957,56965	65 10372,06428 73161,81844	65 11140,02425 73153,09128	9,99994,87738,7905 11708,9205	11,81360,58090 490,81151	7:12
11	99987,93586,96692 27262,15031	64 37210,24584 71536,12955	64 37986,93297 71527,40237	9,99994,76029,8700 11841,2461	11,80869,76939 485,32923	6:36
10	99987,66324,81661 27566,73016	63 65674,11629 69964,03480	63 66459,53060 69955,30761	9,99994,64188,6239 11973,5725	11,80384,44016 479,96811	6: 0
9	99987,38758,08645 27871,30915	62 95710,08149 68443,20401	62 96504,22299 68434,47680	9,99994,52215,0514 12105,8995	11,79904,47205 474,72421	5:24
8	99987,10886,77730 28175,88731	62 27266,87748 66971,43227	62 28069,74619 66962,70506	9,99994,40109,1519 12238,2272	11,79429,74784 469,59372	4:48
7	99986,82710,88999 28480,46460	61 60295,44521 65546,63197	61 61107,04113 65537,90475	9,99994,27870,9247 12370,5558	11,78960,15412 464,57297	4:12
6	99986,54230,42539 28785,04102	60 94748,81324 64166,82538	60 95569,13638 64158,09813	9,99994,15500,3689 12502,8851	11,78495,58115 459,65853	3:36
5	99986,25445,38437 29089,61657	60 30581,98786 62830,13773	60 31411,03825 62821,41048	9,99994,02997,4838 12635,2151	11,78035,92262 454,84701	3: 0
4	99985,96355,76780 29394,19123	59 67751,85013 61534,79094	59 68589,62777 61526,06367	9,99993,90362,2687 12767,5459	11,77581,07561 450,13524	2:24
3	99985,66961,57657 29698,76499	59 06217,05919 60279,09762	59 07063,56410 60270,37035	9,99993,77594,7228 12899,8776	11,77130,94037 445,52015	1:48
2	99985,37262,81158 30003,33786	58 45937,96157 59061,45562	58 46793,19375 59052,72832	9,99993,64694,8452 13032,2099	11,76685,42022 440,99877	1:12
1	99985,07259,47372 30307,90981	57 86876,50595 57880,34287	57 87740,46543 57871,61557	9,99993,51662,6353 13164,5430	11,76244,42145 436,56831	0:36
0	99984,76951,56391 30612,48083	57 28996,16308 56734,31269	57 29868,84986 56725,58538	9,99993,38498,0923 13296,8770	11,75807,85314 432,22603	0: 0

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1. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	1745,24064,37284 17,45060,76288	1745,50649 17,45867	1 00015,23280 30622	8,24185,53184,2286 432,09305,8977	8,24192,14686 432,22603	0: 0
1	1762,69125,13572 17,45055,39342	1762,96516 17,45877	1 00015,53902 30927	8,24617,62490,1263 427,83503,7635	8,24624,37289 427,96933	0:36
2	1780,14180,52914 17,45049,97079	1780,42393 17,45888	1 00015,84829 31232	8,25045,45993,8898 423,66009,3025	8,25052,34222 423,79571	1:12
3	1797,59230,49993 17,45044,49502	1797,88281 17,45899	1 00016,16061 31536	8,25469,12003,1923 419,56581,7054	8,25476,13793 419,70275	1:48
4	1815,04274,99495 17,45038,96608	1815,34180 17,45910	1 00016,47597 31842	8,25888,68584,8977 415,54989,3801	8,25895,84068 415,68816	2:24
5	1832,49313,96103 17,45033,38398	1832,80090 17,45921	1 00016,79439 32146	8,26304,23574,2778 411,61009,5159	8,26311,52884 411,74968	3: 0
6	1849,94347,34501 17,45027,74874	1850,26011 17,45932	1 00017,11585 32451	8,26715,84583,7937 407,74427,6711	8,26723,27852 407,88519	3:36
7	1867,39375,09375 17,45022,06033	1867,71943 17,45944	1 00017,44036 32756	8,27123,59011,4648 403,95037,3832	8,27131,16371 404,09260	4:12
8	1884,84397,15408 17,45016,31877	1885,17887 17,45955	1 00017,76792 33061	8,27527,54048,8480 400,22639,8015	8,27535,25631 400,36996	4:48
9	1902,29413,47285 17,45010,52405	1902,63842 17,45967	1 00018,09853 33365	8,27927,76688,6495 396,57043,3397	8,27935,62627 396,71531	5:24
10	1919,74423,99690 17,45004,67617	1920,09809 17,45979	1 00018,43218 33671	8,28324,33731,9892 392,98063,3468	8,28332,34158 393,12683	6: 0
11	1937,19428,67307 17,44998,77514	1937,55788 17,45990	1 00018,76889 33976	8,28717,31795,3360 389,45521,7966	8,28725,46841 389,60275	6:36
12	1954,64427,44821 17,44992,82095	1955,01778 17,46002	1 00019,10865 34280	8,29106,77317,1326 385,99246,9924	8,29115,07116 386,14132	7:12
13	1972,09420,26916 17,44986,81362	1972,47780 17,46015	1 00019,45145 34586	8,29492,76564,1250 382,59073,2893	8,29501,21248 382,74090	7:48
14	1989,54407,08278 17,44980,75311	1989,93795 17,46026	1 00019,79731 34890	8,29875,35637,4143 379,24840,8288	8,29883,95338 379,39991	8:24
15	2006,99387,83589 17,44974,63946	2007,39821 17,46039	1 00020,14621 35195	8,30254,60478,2431 375,96395,2889	8,30263,35329 376,11677	9: 0
16	2024,44362,47535 17,44968,47265	2024,85860 17,46051	1 00020,49816 35500	8,30630,56873,5320 372,73587,6469	8,30639,47006 372,89002	9:36
17	2041,89330,94800 17,44962,25269	2042,31911 17,46063	1 00020,85316 35805	8,31003,30461,1789 369,56273,9525	8,31012,36008 369,71821	10:12
18	2059,34293,20069 17,44955,97958	2059,77974 17,46076	1 00021,21121 36110	8,31372,86735,1314 366,44315,1153	8,31382,07829 366,59994	10:48
19	2076,79249,18027 17,44949,65330	2077,24050 17,46089	1 00021,57231 36415	8,31739,31050,2467 363,37576,7004	8,31748,67823 363,53388	11:24
20	2094,24198,83357 17,44943,27388	2094,70139 17,46102	1 00021,93646 36720	8,32102,68626,9471 360,35928,7361	8,32112,21211 360,51872	12: 0
21	2111,69142,10745 17,44936,84129	2112,16241 17,46114	1 00022,30366 37025	8,32463,04555,6832 357,39245,5289	8,32472,73083 357,55322	12:36
22	2129,14078,94874 17,44930,35556	2129,62355 17,46127	1 00022,67391 37330	8,32820,43801,2121 354,47405,4906	8,32830,28405 354,63614	13:12
23	2146,59009,30430 17,44923,81668	2147,08482 17,46141	1 00023,04721 37635	8,33174,91206,7027 351,60290,9705	8,33184,92019 351,76632	13:48
24	2164,03933,12098 17,44917,22463	2164,54623 17,46153	1 00023,42356 37940	8,33526,51497,6732 348,77788,0983	8,33536,68651 348,94261	14:24
25	2181,48850,34561 17,44910,57944	2182,00776 17,46167	1 00023,80296 38244	8,33875,29285,7715 345,99786,6330	8,33885,62912 346,16392	15: 0
26	2198,93760,92505 17,44903,88109	2199,46943 17,46180	1 00024,18540 38550	8,34221,29072,4045 343,26179,8198	8,34231,79304 343,42918	15:36
27	2216,38664,80614 17,44897,12960	2216,93123 17,46194	1 00024,57090 38855	8,34564,55252,2243 340,56864,2528	8,34575,22222 340,73734	16:12
28	2233,83561,93574 17,44890,32494	2234,39317 17,46208	1 00024,95945 39160	8,34905,12116,4771 337,91739,7451	8,34915,95956 338,08743	16:48
29	2251,28452,26068 17,44883,46713	2251,85525 17,46221	1 00025,35105 39464	8,35243,03856,2222 335,30709,2049	8,35254,04699 335,47844	17:24
30	2268,73335,72781 17,44876,55618	2269,31746 17,46235	1 00025,74569 39770	8,35578,34565,4271 332,73678,5158	8,35589,52543 332,90946	18: 0
31	2286,18212,28399 17,44869,59207	2286,77981 17,46249	1 00026,14339 40075	8,35911,08243,9429 330,20556,4249	8,35922,43489 330,37956	18:36
32	2303,63081,87606 17,44862,57481	2304,24230 17,46263	1 00026,54414 40380	8,36241,28800,3678 327,71254,4339	8,36252,81445 327,88786	19:12
33	2321,07944,45087 17,44855,50440	2321,70493 17,46277	1 00026,94794 40685	8,36569,00054,8017 325,25686,6960	8,36580,70231 325,43351	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99984,76951,56391 30612,48083	57 28996,16308 56734,31269	57 29868,84986 56725,58538	9,99993,38498,0923 13296,8770	11,75807,85314 432,22603	60: 0
99	99984,46339,08308 30917,05092	56 72261,85039 55621,98928	56 73143,26448 55613,26194	9,99993,25201,2153 13429,2119	11,75375,62711 427,96933	59:24
98	99984,15422,03216 31221,62007	56 16639,86111 54542,06363	56 17530,00254 54533,33628	9,99993,11772,0034 13561,5474	11,74947,65778 423,79571	58:48
97	99983,84200,41209 31526,18827	55 62097,79748 53493,28968	55 62996,66626 53484,56233	9,99992,98210,4560 13693,8838	11,74523,86207 419,70275	58:12
96	99983,52674,22382 31830,75551	55 08604,50780 52474,48071	55 09512,10393 52465,75334	9,99992,84516,5722 13826,2211	11,74104,15932 415,68816	57:36
95	99983,20843,46831 32135,32178	54 56130,02709 51484,50595	54 57046,35059 51475,77856	9,99992,70690,3511 13958,5592	11,73688,47116 411,74968	57: 0
94	99982,88708,14653 32439,88707	54 04645,52114 50522,28749	54 05570,57203 50513,56010	9,99992,56731,7919 14090,8982	11,73276,72148 407,88519	56:24
93	99982,56268,25946 32744,45137	53 54123,23365 49586,79733	53 55057,01193 49578,06991	9,99992,42640,8937 14223,2380	11,72868,83629 404,09260	55:48
92	99982,23523,80809 33049,01467	53 04536,43632 48677,05461	53 05478,94202 48668,32717	9,99992,28417,6557 14355,5787	11,72464,74369 400,36996	55:12
91	99981,90474,79342 33353,57698	52 55859,38171 47792,12303	52 56810,61485 47783,39560	9,99992,14062,0770 14487,9202	11,72064,37373 396,71531	54:36
90	99981,57121,21644 33658,13825	52 08067,25868 46931,10855	52 09027,21925 46922,38108	9,99991,99574,1568 14620,2626	11,71667,65842 393,12683	54: 0
89	99981,23463,07819 33962,69851	51 61136,15013 46093,15693	51 62104,83817 46084,42947	9,99991,84953,8942 14752,6060	11,71274,53159 389,60275	53:24
88	99980,89500,37968 34267,25774	51 15042,99320 45277,45184	51 16020,40870 45268,72435	9,99991,70201,2882 14884,9502	11,70884,92884 386,14132	52:48
87	99980,55233,12194 34571,81591	50 69765,54136 44483,21266	50 70751,68435 44474,48515	9,99991,55316,3380 15017,2954	11,70498,78752 382,74090	52:12
86	99980,20661,30603 34876,37303	50 25282,32870 43709,69276	50 26277,19920 43700,96525	9,99991,40299,0426 15149,6414	11,70116,04662 379,39991	51:36
85	99979,85784,93300 35180,92910	49 81572,63594 42956,17769	49 82576,23395 42947,45016	9,99991,25149,4012 15281,9884	11,69736,64671 376,11677	51: 0
84	99979,50604,00390 35485,48409	49 38616,45825 42221,98352	49 39628,78379 42213,25597	9,99991,09867,4128 15414,3362	11,69360,52994 372,89002	50:24
83	99979,15118,51981 35790,03800	48 96394,47473 41506,45531	48 97415,52782 41497,72774	9,99990,94453,0766 15546,6852	11,68987,63992 369,71821	49:48
82	99978,79328,48181 36094,59082	48 54888,01942 40808,96561	48 55917,80008 40800,23804	9,99990,78906,3914 15679,0349	11,68617,92171 366,59994	49:12
81	99978,43233,89099 36399,14254	48 14079,05381 40128,91317	48 15117,56204 40120,18557	9,99990,63227,3565 15811,3857	11,68251,32177 363,53388	48:36
80	99978,06834,74845 36703,69315	47 73950,14064 39465,72153	47 74997,37647 39456,99391	9,99990,47415,9708 15943,7374	11,67887,78789 360,51872	48: 0
79	99977,70131,05530 37008,24264	47 34484,41911 38818,83787	47 35540,38256 38810,11025	9,99990,31472,2334 16076,0900	11,67527,26917 357,55322	47:24
78	99977,33122,81266 37312,79101	46 95665,58124 38187,73187	46 96730,27231 38179,00423	9,99990,15396,1434 16208,4438	11,67169,71595 354,63614	46:48
77	99976,95810,02165 37617,33824	46 57477,84937 37571,89457	46 58551,26808 37563,16690	9,99989,99187,6996 16340,7984	11,66815,07981 351,76632	46:12
76	99976,58192,68341 37921,88432	46 19905,95480 36970,83735	46 20988,10118 36962,10968	9,99989,82846,9012 16473,1540	11,66463,31349 348,94261	45:36
75	99976,20270,79909 38226,42925	45 82935,11745 36384,09103	45 84025,99150 36375,36334	9,99989,66373,7472 16605,5107	11,66114,37088 346,16392	45: 0
74	99975,82044,36984 38530,97301	45 46551,02642 35811,20485	45 47650,62816 35802,47714	9,99989,49768,2365 16737,8683	11,65768,20696 343,42918	44:24
73	99975,43513,39683 38835,51561	45 10739,82157 35251,74570	45 11848,15102 35243,01797	9,99989,33030,3682 16870,2271	11,65424,77778 340,73734	43:48
72	99975,04677,88122 39140,05701	44 75488,07587 34705,29722	44 76605,13305 34696,56948	9,99989,16160,1411 17002,5867	11,65084,04044 338,08743	43:12
71	99974,65537,82421 39444,59723	44 40782,77865 34171,45910	44 41908,56357 34162,73133	9,99988,99157,5544 17134,9475	11,64745,95301 335,47844	42:36
70	99974,26093,22698 39749,13624	44 06611,31955 33649,84627	44 07745,83224 33641,11849	9,99988,82022,6069 17267,3093	11,64410,47457 332,90946	42: 0
69	99973,86344,09074 40053,67404	43 72961,47328 33140,08827	43 74104,71375 33131,36048	9,99988,64755,2976 17399,6721	11,64077,56511 330,37956	41:24
68	99973,46290,41670 40358,21062	43 39821,38501 32641,82859	43 40973,35327 32633,10078	9,99988,47355,6255 17532,0361	11,63747,18555 327,88786	40:48
67	99973,05932,20608 40662,74598	43 07179,55642 32154,72397	43 08340,25249 32145,99614	9,99988,29823,5894 17664,4010	11,63419,29769 325,43351	40:12

GRAD. 88.

1. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	2321,07944,45087 17,44855,50440	2321,70493 17,46277	1 00026,94794 40685	8,36569,00054,8017 325,25686,6960	8,36580,70231 325,43351	19:48
34	2338,52799,95527 17,44848,38083	2339,16770 17,46291	1 00027,35479 40989	8,36894,25741,4977 322,83769,9182	8,36906,13582 323,01567	20:24
35	2355,97648,33610 17,44841,20412	2356,63061 17,46306	1 00027,76468 41295	8,37217,09511,4159 320,45423,2654	8,37229,15149 320,63352	21: 0
36	2373,42489,54022 17,44833,97425	2374,09367 17,46320	1 00028,17763 41600	8,37537,54934,6813 318,10568,2724	8,37549,78501 318,28630	21:36
37	2390,87323,51447 17,44826,69124	2391,55687 17,46335	1 00028,59363 41905	8,37855,65502,9537 315,79128,7558	8,37868,07131 315,97323	22:12
38	2408,32150,20571 17,44819,35507	2409,02022 17,46350	1 00029,01268 42210	8,38171,44631,7095 313,51030,7332	8,38184,04454 313,69357	22:48
39	2425,76969,56078 17,44811,96575	2426,48372 17,46364	1 00029,43478 42516	8,38484,95662,4427 311,26202,3429	8,38497,73811 311,44661	23:24
40	2443,21781,52653 17,44804,52329	2443,94736 17,46379	1 00029,85994 42820	8,38796,21864,7856 309,04573,7697	8,38809,18472 309,23164	24: 0
41	2460,66586,04982 17,44797,02767	2461,41115 17,46394	1 00030,28814 43125	8,39105,26438,5553 306,86077,1719	8,39118,41636 307,04801	24:36
42	2478,11383,07749 17,44789,47890	2478,87509 17,46410	1 00030,71939 43430	8,39412,12515,7272 304,70646,6118	8,39425,46437 304,89502	25:12
43	2495,56172,55639 17,44781,87698	2496,33919 17,46424	1 00031,15369 43736	8,39716,83162,3390 302,58217,9903	8,39730,35939 302,77206	25:48
44	2513,00954,43337 17,44774,22193	2513,80343 17,46440	1 00031,59105 44040	8,40019,41380,3293 300,48728,9822	8,40033,13145 300,67850	26:24
45	2530,45728,65530 17,44766,51370	2531,26783 17,46455	1 00032,03145 44346	8,40319,90109,3115 298,42118,9760	8,40333,80995 298,61372	27: 0
46	2547,90495,16900 17,44758,75235	2548,73238 17,46471	1 00032,47491 44651	8,40618,32228,2875 296,38329,0152	8,40632,42367 296,57714	27:36
47	2565,35253,92135 17,44750,93784	2566,19709 17,46486	1 00032,92142 44956	8,40914,70557,3027 294,37301,7419	8,40929,00081 294,56819	28:12
48	2582,80004,85919 17,44743,07017	2583,66195 17,46503	1 00033,37098 45261	8,41209,07859,0446 292,38981,3435	8,41223,56900 292,58632	28:48
49	2600,24747,92936 17,44735,14937	2601,12698 17,46518	1 00033,82359 45566	8,41501,46840,3881 290,43313,5005	8,41516,15532 290,63096	29:24
50	2617,69483,07873 17,44727,17542	2618,59216 17,46534	1 00034,27925 45871	8,41791,90153,8886 288,50245,3374	8,41806,78628 288,70160	30: 0
51	2635,14210,25415 17,44719,14831	2636,05750 17,46550	1 00034,73796 46177	8,42080,40399,2260 286,59725,3746	8,42095,48788 286,79772	30:36
52	2652,58929,40246 17,44711,06806	2653,52300 17,46566	1 00035,19973 46481	8,42367,00124,6006 284,71703,4827	8,42382,28560 284,91883	31:12
53	2670,03640,47052 17,44702,93467	2670,98866 17,46583	1 00035,66454 46787	8,42651,71828,0833 282,86130,8389	8,42667,20443 283,06443	31:48
54	2687,48343,40519 17,44694,74813	2688,45449 17,46599	1 00036,13241 47092	8,42934,57958,9222 281,02959,8842	8,42950,26886 281,23404	32:24
55	2704,93038,15332 17,44686,50843	2705,92048 17,46615	1 00036,60333 47397	8,43215,60918,8064 279,22144,2834	8,43231,50290 279,42721	33: 0
56	2722,37724,66175 17,44678,21561	2723,38663 17,46632	1 00037,07730 47702	8,43494,83063,0898 277,43638,8849	8,43510,93011 277,64348	33:36
57	2739,82402,87736 17,44669,86962	2740,85295 17,46649	1 00037,55432 48008	8,43772,26701,9747 275,67399,6846	8,43788,57359 275,88242	34:12
58	2757,27072,74698 17,44661,47049	2758,31944 17,46665	1 00038,03440 48312	8,44047,94101,6593 273,93383,7884	8,44064,45601 274,14357	34:48
59	2774,71734,21747 17,44653,01822	2775,78609 17,46683	1 00038,51752 48618	8,44321,87485,4477 272,21549,3781	8,44338,59958 272,42656	35:24
60	2792,16387,23569 17,44644,51280	2793,25292 17,46700	1 00039,00370 48923	8,44594,09034,8258 270,51855,6780	8,44611,02614 270,73094	36: 0
61	2809,61031,74849 17,44635,95424	2810,71992 17,46716	1 00039,49293 49229	8,44864,60890,5038 268,84262,9216	8,44881,75708 269,05634	36:36
62	2827,05667,70273 17,44627,34254	2828,18708 17,46734	1 00039,98522 49533	8,45133,45153,4254 267,18732,3221	8,45150,81342 267,40236	37:12
63	2844,50295,04527 17,44618,67768	2845,65442 17,46751	1 00040,48055 49839	8,45400,63885,7475 265,55226,0412	8,45418,21578 265,76862	37:48
64	2861,94913,72295 17,44609,95968	2863,12193 17,46769	1 00040,97894 50144	8,45666,19111,7887 263,93707,1608	8,45683,98440 264,15475	38:24
65	2879,39523,68263 17,44601,18855	2880,58962 17,46786	1 00041,48038 50449	8,45930,12818,9495 262,34139,6551	8,45948,13915 262,56041	39: 0
66	2896,84124,87118 17,44592,36427	2898,05748 17,46804	1 00041,98487 50755	8,46192,46958,6046 260,76488,3635	8,46210,69956 260,98521	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99973,05932,20608 40662,74598	43 07179,55642 32154,72397	43 08340,25249 32145,99614	9,99988,29823,5894 17664,4010	11,63419,29769 325,43351	40:12
66	99972,65269,46010 40967,28009	42 75024,83245 31678,44390	42 76194,25635 31669,71605	9,99988,12159,1884 17796,7671	11,63093,86418 323,01567	39:36
65	99972,24302,18001 41271,81296	42 43346,38855 31212,67000	42 44524,54030 31203,94213	9,99987,94362,4213 17929,1342	11,62770,84851 320,63352	39: 0
64	99971,83030,36705 41576,34457	42 12133,71855 30757,09554	42 13320,59817 30748,36765	9,99987,76433,2871 18061,5024	11,62450,21499 318,28630	38:24
63	99971,41454,02248 41880,87491	41 81376,62301 30311,42486	41 82572,23052 30302,69696	9,99987,58371,7847 18193,8718	11,62131,92869 315,97323	37:48
62	99970,99573,14757 42185,40398	41 51065,19815 29875,37298	41 52269,53356 29866,64506	9,99987,40177,9129 18326,2422	11,61815,95546 313,69357	37:12
61	99970,57387,74359 42489,93176	41 21189,82517 29448,66507	41 22402,88850 29439,93713	9,99987,21851,6707 18458,6138	11,61502,26189 311,44661	36:36
60	99970,14897,81183 42794,45825	40 91741,16010 29031,03605	40 92962,95137 29022,30809	9,99987,03393,0569 18590,9864	11,61190,81528 309,23164	36: 0
59	99969,72103,35358 43098,98343	40 62710,12405 28622,23018	40 63940,64328 28613,50220	9,99986,84802,0705 18723,3603	11,60881,58364 307,04801	35:24
58	99969,29004,37015 43403,50730	40 34087,89387 28222,00065	40 35327,14108 28213,27266	9,99986,66078,7102 18855,7352	11,60574,53563 304,89502	34:48
57	99968,85600,86285 43708,02985	40 05865,89322 27830,10924	40 07113,86842 27821,38123	9,99986,47222,9750 18988,1114	11,60269,64061 302,77206	34:12
56	99968,41892,83300 44012,55107	39 78035,78398 27446,32594	39 79292,48719 27437,59790	9,99986,28234,8636 19120,4886	11,59966,86855 300,67850	33:36
55	99967,97880,28193 44317,07094	39 50589,45804 27070,42858	39 51854,88929 27061,70053	9,99986,09114,3750 19252,8670	11,59666,19005 298,61372	33: 0
54	99967,53563,21099 44621,58948	39 23519,02946 26702,20261	39 24793,18876 26693,47453	9,99985,89861,5080 19385,2466	11,59367,57633 296,57714	32:24
53	99967,08941,62151 44926,10664	38 96816,82685 26341,44066	38 98099,71423 26332,71258	9,99985,70476,2614 19517,6274	11,59070,99919 294,56819	31:48
52	99966,64015,51487 45230,62244	38 70475,38619 25987,94240	38 71767,00165 25979,21428	9,99985,50958,6340 19650,0094	11,58776,43100 292,58632	31:12
51	99966,18784,89243 45535,13686	38 44487,44379 25641,51409	38 45787,78737 25632,78596	9,99985,31308,6246 19782,3926	11,58483,84468 290,63096	30:36
50	99965,73249,75557 45839,64989	38 18845,92970 25301,96846	38 20155,00141 25293,24031	9,99985,11526,2320 19914,7769	11,58193,21372 288,70160	30: 0
49	99965,27410,10568 46144,16153	37 93543,96124 24969,12440	37 94861,76110 24960,39622	9,99984,91611,4551 20047,1626	11,57904,51212 286,79772	29:24
48	99964,81265,94415 46448,67177	37 68574,83684 24642,80668	37 69901,36488 24634,07849	9,99984,71564,2925 20179,5493	11,57617,71440 284,91883	28:48
47	99964,34817,27238 46753,18058	37 43932,03016 24322,84581	37 45267,28639 24314,11760	9,99984,51384,7432 20311,9374	11,57332,79557 283,06443	28:12
46	99963,88064,09180 47057,68798	37 19609,18435 24009,07773	37 20953,16879 24000,34950	9,99984,31072,8058 20444,3267	11,57049,73114 281,23404	27:36
45	99963,41006,40382 47362,19393	36 95600,10662 23701,34364	36 96952,81929 23692,61539	9,99984,10628,4791 20576,7172	11,56768,49710 279,42721	27: 0
44	99962,93644,20989 47666,69845	36 71898,76298 23399,48984	36 73260,20390 23390,76156	9,99983,90051,7619 20709,1090	11,56489,06989 277,64348	26:24
43	99962,45977,51144 47971,20152	36 48499,27314 23103,36743	36 49869,44234 23094,63914	9,99983,69342,6529 20841,5020	11,56211,42641 275,88242	25:48
42	99961,98006,30992 48275,70312	36 25395,90571 22812,83223	36 26774,80320 22804,10391	9,99983,48501,1509 20973,8964	11,55935,54399 274,14357	25:12
41	99961,49730,60680 48580,20326	36 02583,07348 22527,74458	36 03970,69929 22519,01624	9,99983,27527,2545 21106,2920	11,55661,40042 272,42656	24:36
40	99961,01150,40354 48884,70190	35 80055,32890 22247,96911	35 81451,68305 22239,24075	9,99983,06420,9625 21238,6888	11,55388,97386 270,73094	24: 0
39	99960,52265,70164 49189,19907	35 57807,35979 21973,37467	35 59212,44230 21964,64629	9,99982,85182,2737 21371,0870	11,55118,24292 269,05634	23:24
38	99960,03076,50257 49493,69474	35 35833,98512 21703,83412	35 37247,79601 21695,10572	9,99982,63811,1867 21503,4865	11,54849,18658 267,40236	22:48
37	99959,53582,80783 49798,18890	35 14130,15100 21439,22418	35 15552,69029 21430,49576	9,99982,42307,7002 21635,8873	11,54581,78422 265,76862	22:12
36	99959,03784,61893 50102,68153	34 92690,92682 21179,42534	34 94122,19453 21170,69690	9,99982,20671,8129 21768,2895	11,54316,01560 264,15475	21:36
35	99958,53681,93740 50407,17265	34 71511,50148 20924,32166	34 72951,49763 20915,59320	9,99981,98903,5234 21900,6928	11,54051,86085 262,56041	21: 0
34	99958,03274,76475 50711,66223	34 50587,17982 20673,80068	34 52035,90443 20665,07219	9,99981,77002,8306 22033,0976	11,53789,30044 260,98521	20:24

GRAD. 88.

1. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	2914,28717,23545	2915,52552	1 00042,49242	8,46453,23446,9681	8,46471,68477	40:12
	17,44583,48683	17,46822	51060	259,20718,9656	259,42885	
68	2931,73300,72228	2932,99374	1 00043,00302	8,46712,44165,9337	8,46731,11362	40:48
	17,44574,55627	17,46840	51365	257,66797,9555	257,89096	
69	2949,17875,27855	2950,46214	1 00043,51667	8,46970,10963,8892	8,46989,00458	41:24
	17,44565,57256	17,46857	51670	256,14692,6178	256,37123	
70	2966,62440,85111	2967,93071	1 00044,03337	8,47226,25656,5070	8,47245,37581	42: 0
	17,44556,53570	17,46876	51976	254,64371,0050	254,86933	
71	2984,06997,38681	2985,39947	1 00044,55313	8,47480,90027,5120	8,47500,24514	42:36
	17,44547,44570	17,46894	52280	253,15801,9143	253,38497	
72	3001,51544,83251	3002,86841	1 00045,07593	8,47734,05829,4263	8,47753,63011	43:12
	17,44538,30257	17,46912	52587	251,68954,8671	251,91783	
73	3018,96083,13508	3020,33753	1 00045,60180	8,47985,74784,2934	8,48005,54794	43:48
	17,44529,10628	17,46931	52891	250,23800,0866	250,46760	
74	3036,40612,24136	3037,80684	1 00046,13071	8,48235,98584,3800	8,48256,01554	44:24
	17,44519,85687	17,46949	53197	248,80308,4796	249,03401	
75	3053,85132,09823	3055,27633	1 00046,66268	8,48484,78892,8596	8,48505,04955	45: 0
	17,44510,55430	17,46968	53502	247,38451,6151	247,61676	
76	3071,29642,65253	3072,74601	1 00047,19770	8,48732,17344,4747	8,48752,66631	45:36
	17,44501,19859	17,46986	53808	245,98201,7068	246,21559	
77	3088,74143,85112	3090,21587	1 00047,73578	8,48978,15546,1815	8,48998,88190	46:12
	17,44491,78975	17,47006	54113	244,59531,5949	244,83021	
78	3106,18635,64087	3107,68593	1 00048,27691	8,49222,75077,7764	8,49243,71211	46:48
	17,44482,32777	17,47024	54418	243,22414,7276	243,46037	
79	3123,63117,96864	3125,15617	1 00048,82109	8,49465,97492,5040	8,49487,17248	47:24
	17,44472,81264	17,47043	54723	241,86825,1452	242,10580	
80	3141,07590,78128	3142,62660	1 00049,36832	8,49707,84317,6492	8,49729,27828	48: 0
	17,44463,24438	17,47063	55029	240,52737,4633	240,76624	
81	3158,52054,02566	3160,09723	1 00049,91861	8,49948,37055,1125	8,49970,04452	48:36
	17,44453,62297	17,47082	55335	239,20126,8567	239,44146	
82	3175,96507,64863	3177,56805	1 00050,47196	8,50187,57181,9692	8,50209,48598	49:12
	17,44443,94844	17,47101	55639	237,88969,0445	238,13121	
83	3193,40951,59707	3195,03906	1 00051,02835	8,50425,46151,0137	8,50447,61719	49:48
	17,44434,22075	17,47121	55945	236,59240,2752	236,83524	
84	3210,85385,81782	3212,51027	1 00051,58780	8,50662,05391,2889	8,50684,45243	50:24
	17,44424,43992	17,47140	56251	235,30917,3119	235,55334	
85	3228,29810,25774	3229,98167	1 00052,15031	8,50897,36308,6008	8,50920,00577	51: 0
	17,44414,60598	17,47160	56556	234,03977,4191	234,28527	
86	3245,74224,86372	3247,45327	1 00052,71587	8,51131,40286,0199	8,51154,29104	51:36
	17,44404,71887	17,47180	56861	232,78398,3487	233,03080	
87	3263,18629,58259	3264,92507	1 00053,28448	8,51364,18684,3686	8,51387,32184	52:12
	17,44394,77864	17,47199	57167	231,54158,3274	231,78972	
88	3280,63024,36123	3282,39706	1 00053,85615	8,51595,72842,6960	8,51619,11156	52:48
	17,44384,78527	17,47220	57472	230,31236,0439	230,56182	
89	3298,07409,14650	3299,86926	1 00054,43087	8,51826,04078,7399	8,51849,67338	53:24
	17,44374,73876	17,47240	57778	229,09610,6365	229,34690	
90	3315,51783,88526	3317,34166	1 00055,00865	8,52055,13689,3764	8,52079,02028	54: 0
	17,44364,63912	17,47260	58083	227,89261,6821	228,14473	
91	3332,96148,52438	3334,81426	1 00055,58948	8,52283,02951,0585	8,52307,16501	54:36
	17,44354,48633	17,47281	58389	226,70169,1837	226,95513	
92	3350,40503,01071	3352,28707	1 00056,17337	8,52509,73120,2422	8,52534,12014	55:12
	17,44344,28042	17,47300	58694	225,52313,5599	225,77789	
93	3367,84847,29113	3369,76007	1 00056,76031	8,52735,25433,8021	8,52759,89803	55:48
	17,44334,02137	17,47322	58999	224,35675,6342	224,61284	
94	3385,29181,31250	3387,23329	1 00057,35030	8,52959,61109,4363	8,52984,51087	56:24
	17,44323,70917	17,47342	59305	223,20236,6247	223,45978	
95	3402,73505,02167	3404,70671	1 00057,94335	8,53182,81346,0610	8,53207,97065	57: 0
	17,44313,34386	17,47363	59611	222,05978,1332	222,31852	
96	3420,17818,36553	3422,18034	1 00058,53946	8,53404,87324,1942	8,53430,28917	57:36
	17,44302,92539	17,47383	59916	220,92882,1366	221,18888	
97	3437,62121,29092	3439,65417	1 00059,13862	8,53625,80206,3308	8,53651,47805	58:12
	17,44292,45380	17,47405	60221	219,80930,9765	220,07069	
98	3455,06413,74472	3457,12822	1 00059,74083	8,53845,61137,3073	8,53871,54874	58:48
	17,44281,92908	17,47426	60527	218,70107,3505	218,96378	
99	3472,50695,67380	3474,60248	1 00060,34610	8,54064,31244,6578	8,54090,51252	59:24
	17,44271,35121	17,47447	60833	217,60394,3029	217,86798	
100	3489,94967,02501	3492,07695	1 00060,95443	8,54281,91638,9607	8,54308,38050	60: 0
	17,44260,72022	17,47468	61138	216,51775,2166	216,78311	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99957,52563,10252 51016,15027	34 29913,37914 20427,75329	34 31370,83224 20419,02477	9,99981,54969,7330 22165,5038	11,53528,31523 259,42885	19:48
32	99957,01546,95225 51320,63675	34 09485,62585 20186,07360	34 10951,80747 20177,34507	9,99981,32804,2292 22297,9112	11,53268,88638 257,89096	19:12
31	99956,50226,31550 51625,12166	33 89299,55225 19948,65885	33 90774,46240 19939,93029	9,99981,10506,3180 22430,3200	11,53010,99542 256,37123	18:36
30	99955,98601,19384 51929,60501	33 69350,89340 19715,40927	33 70834,53211 19706,68070	9,99980,88075,9980 22562,7303	11,52754,62419 254,86933	18: 0
29	99955,46671,58883 52234,08677	33 49635,48413 19486,22800	33 51127,85141 19477,49939	9,99980,65513,2677 22695,1418	11,52499,75486 253,38497	17:24
28	99954,94437,50206 52538,56694	33 30149,25613 19261,02097	33 31650,35202 19252,29235	9,99980,42818,1259 22827,5548	11,52246,36989 251,91783	16:48
27	99954,41898,93512 52843,04551	33 10888,23516 19039,69681	33 12398,05967 19030,96817	9,99980,19990,5711 22959,9691	11,51994,45206 250,46760	16:12
26	99953,89055,88961 53147,52248	32 91848,53835 18822,16680	32 93367,09150 18813,43812	9,99979,97030,6020 23092,3849	11,51743,98446 249,03401	15:36
25	99953,35908,36713 53451,99782	32 73026,37155 18608,34467	32 74553,65338 18599,61598	9,99979,73938,2171 23224,8020	11,51494,95045 247,61676	15: 0
24	99952,82456,36931 53756,47153	32 54418,02688 18398,14665	32 55954,03740 18389,41793	9,99979,50713,4151 23357,2206	11,51247,33369 246,21559	14:24
23	99952,28699,89778 54060,94361	32 36019,88023 18191,49130	32 37564,61947 18182,76256	9,99979,27356,1945 23489,6406	11,51001,11810 244,83021	13:48
22	99951,74638,95417 54365,41404	32 17828,38893 17988,29944	32 19381,85691 17979,57068	9,99979,03866,5539 23622,0620	11,50756,28789 243,46037	13:12
21	99951,20273,54013 54669,88281	31 99840,08949 17788,49411	32 01402,28623 17779,76532	9,99978,80244,4919 23754,4849	11,50512,82752 242,10580	12:36
20	99950,65603,65732 54974,34993	31 82051,59538 17592,00048	31 83622,52091 17583,27166	9,99978,56490,0070 23886,9093	11,50270,72172 240,76624	12: 0
19	99950,10629,30739 55278,81535	31 64459,59490 17398,74575	31 66039,24925 17390,01692	9,99978,32603,0977 24019,3350	11,50029,95548 239,44146	11:24
18	99949,55350,49204 55583,27911	31 47060,84915 17208,65912	31 48649,23233 17199,93026	9,99978,08583,7627 24151,7622	11,49790,51402 238,13121	10:48
17	99948,99767,21293 55887,74116	31 29852,19003 17021,67175	31 31449,30207 17012,94287	9,99977,84432,0005 24284,1910	11,49552,38281 236,83524	10:12
16	99948,43879,47177 56192,20152	31 12830,51828 16837,71660	31 14436,35920 16828,98768	9,99977,60147,8095 24416,6211	11,49315,54757 235,55334	9:36
15	99947,87687,27025 56496,66016	30 95992,80168 16656,72846	30 97607,37152 16647,99953	9,99977,35731,1884 24549,0529	11,49079,99423 234,28527	9: 0
14	99947,31190,61009 56801,11709	30 79336,07322 16478,64388	30 80959,37199 16469,91492	9,99977,11182,1355 24681,4860	11,48845,70896 233,03080	8:24
13	99946,74389,49300 57105,57227	30 62857,42934 16303,40108	30 64489,45707 16294,67210	9,99976,86500,6495 24813,9207	11,48612,67816 231,78972	7:48
12	99946,17283,92073 57410,02573	30 46554,02826 16130,93990	30 48194,78497 16122,21089	9,99976,61686,7288 24946,3569	11,48380,88844 230,56182	7:12
11	99945,59873,89500 57714,47743	30 30423,08836 15961,20180	30 32072,57408 15952,47277	9,99976,36740,3719 25078,7946	11,48150,32662 229,34690	6:36
10	99945,02159,41757 58018,92737	30 14461,88656 15794,12975	30 16120,10131 15785,40069	9,99976,11661,5773 25211,2339	11,47920,97972 228,14473	6: 0
9	99944,44140,49020 58323,37556	29 98667,75681 15629,66819	30 00334,70062 15620,93911	9,99975,86450,3434 25343,6746	11,47692,83499 226,95513	5:24
8	99943,85817,11464 58627,82195	29 83038,08862 15467,76303	29 84713,76151 15459,03392	9,99975,61106,6688 25476,1170	11,47465,87986 225,77789	4:48
7	99943,27189,29269 58932,26657	29 67570,32559 15308,36156	29 69254,72759 15299,63243	9,99975,35630,5518 25608,5609	11,47240,10197 224,61284	4:12
6	99942,68257,02612 59236,70939	29 52261,96403 15151,41242	29 53955,09516 15142,68326	9,99975,10021,9909 25741,0064	11,47015,48913 223,45978	3:36
5	99942,09020,31673 59541,15041	29 37110,55161 14996,86557	29 38812,41190 14988,13637	9,99974,84280,9845 25873,4533	11,46792,02935 222,31852	3: 0
4	99941,49479,16632 59845,58960	29 22113,68604 14844,67221	29 23824,27553 14835,94300	9,99974,58407,5312 26005,9020	11,46569,71083 221,18888	2:24
3	99940,89633,57672 60150,02699	29 07269,01383 14694,78482	29 08988,33253 14686,05559	9,99974,32401,6292 26138,3521	11,46348,52195 220,07069	1:48
2	99940,29483,54973 60454,46253	28 92574,22901 14547,15704	28 94302,27694 14538,42777	9,99974,06263,2771 26270,8039	11,46128,45126 218,96378	1:12
1	99939,69029,08720 60758,89624	28 78027,07197 14401,74368	28 79763,84917 14393,01439	9,99973,79992,4732 26403,2573	11,45909,48748 217,86798	0:36
0	99939,08270,19096 61063,32810	28 63625,32829 14258,50066	28 65370,83478 14249,77134	9,99973,53589,2159 26535,7123	11,45691,61950 216,78311	0: 0

GRAD. 88.

2. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	3489,94967,02501 17,44260,72022	3492,07695 17,47468	1 00060,95443 61138	8,54281,91638,9607 216,51775,2166	8,54308,38050 216,78311	0: 0
1	3507,39227,74523 17,44250,03609	3509,55163 17,47490	1 00061,56581 61444	8,54498,43414,1773 215,44233,8041	8,54525,16361 215,70902	0:36
2	3524,83477,78132 17,44239,29883	3527,02653 17,47511	1 00062,18025 61749	8,54713,87647,9814 214,37754,0998	8,54740,87263 214,64554	1:12
3	3542,27717,08015 17,44228,50843	3544,50164 17,47533	1 00062,79774 62055	8,54928,25402,0812 213,32320,4518	8,54955,51817 213,59254	1:48
4	3559,71945,58858 17,44217,66492	3561,97697 17,47554	1 00063,41829 62360	8,55141,57722,5330 212,27917,5145	8,55169,11071 212,54983	2:24
5	3577,16163,25350 17,44206,76825	3579,45251 17,47577	1 00064,04189 62667	8,55353,85640,0475 211,24530,2407	8,55381,66054 211,51728	3: 0
6	3594,60370,02175 17,44195,81846	3596,92828 17,47598	1 00064,66856 62971	8,55565,10170,2882 210,22143,8750	8,55593,17782 210,49475	3:36
7	3612,04565,84021 17,44184,81555	3614,40426 17,47621	1 00065,29827 63277	8,55775,32314,1632 209,20743,9465	8,55803,67257 209,48206	4:12
8	3629,48750,65576 17,44173,75949	3631,88047 17,47642	1 00065,93104 63583	8,55984,53058,1097 208,20316,2614	8,56013,15463 208,47912	4:48
9	3646,92924,41525 17,44162,65031	3649,35689 17,47665	1 00066,56687 63889	8,56192,73374,3711 207,20846,8975	8,56221,63375 207,48575	5:24
10	3664,37087,06556 17,44151,48800	3666,83354 17,47687	1 00067,20576 64194	8,56399,94221,2686 206,22322,1969	8,56429,11950 206,50182	6: 0
11	3681,81238,55356 17,44140,27256	3684,31041 17,47710	1 00067,84770 64500	8,56606,16543,4655 205,24728,7599	8,56635,62132 205,52722	6:36
12	3699,25378,82612 17,44129,00399	3701,78751 17,47732	1 00068,49270 64805	8,56811,41272,2254 204,28053,4392	8,56841,14854 204,56179	7:12
13	3716,69507,83011 17,44117,68228	3719,26483 17,47755	1 00069,14075 65111	8,57015,69325,6646 203,32283,3337	8,57045,71033 203,60541	7:48
14	3734,13625,51239 17,44106,30746	3736,74238 17,47778	1 00069,79186 65417	8,57219,01608,9983 202,37405,7832	8,57249,31574 202,65796	8:24
15	3751,57731,81985 17,44094,87950	3754,22016 17,47800	1 00070,44603 65723	8,57421,39014,7815 201,43408,3620	8,57451,97370 201,71931	9: 0
16	3769,01826,69935 17,44083,39841	3771,69816 17,47824	1 00071,10326 66028	8,57622,82423,1435 200,50278,8743	8,57653,69301 200,78934	9:36
17	3786,45910,09776 17,44071,86420	3789,17640 17,47847	1 00071,76354 66334	8,57823,32702,0178 199,58005,3485	8,57854,48235 199,86793	10:12
18	3803,89981,96196 17,44060,27685	3806,65487 17,47870	1 00072,42688 66639	8,58022,90707,3663 198,66576,0323	8,58054,35028 198,95496	10:48
19	3821,34042,23881 17,44048,63639	3824,13357 17,47893	1 00073,09327 66946	8,58221,57283,3986 197,75979,3872	8,58253,30524 198,05032	11:24
20	3838,78090,87520 17,44036,94279	3841,61250 17,47917	1 00073,76273 67251	8,58419,33262,7858 196,86204,0845	8,58451,35556 197,15390	12: 0
21	3856,22127,81799 17,44025,19607	3859,09167 17,47940	1 00074,43524 67557	8,58616,19466,8703 195,97238,9997	8,58648,50946 196,26556	12:36
22	3873,66153,01406 17,44013,39623	3876,57107 17,47964	1 00075,11081 67862	8,58812,16705,8700 195,09073,2085	8,58844,77502 195,38524	13:12
23	3891,10166,41029 17,44001,54325	3894,05071 17,47988	1 00075,78943 68169	8,59007,25779,0785 194,21695,9821	8,59040,16026 194,51278	13:48
24	3908,54167,95354 17,43989,63715	3911,53059 17,48011	1 00076,47112 68474	8,59201,47475,0606 193,35096,7826	8,59234,67304 193,64812	14:24
25	3925,98157,59069 17,43977,67792	3929,01070 17,48036	1 00077,15586 68780	8,59394,82571,8432 192,49265,2596	8,59428,32116 192,79113	15: 0
26	3943,42135,26861 17,43965,66558	3946,49106 17,48059	1 00077,84366 69086	8,59587,31837,1028 191,64191,2448	8,59621,11229 191,94172	15:36
27	3960,86100,93419 17,43953,60011	3963,97165 17,48084	1 00078,53452 69391	8,59778,96028,3476 190,79864,7491	8,59813,05401 191,09977	16:12
28	3978,30054,53430 17,43941,48151	3981,45249 17,48108	1 00079,22843 69698	8,59969,75893,0967 189,96275,9583	8,60004,15378 190,26521	16:48
29	3995,73996,01581 17,43929,30979	3998,93357 17,48133	1 00079,92541 70003	8,60159,72169,0550 189,13415,2291	8,60194,41899 189,43793	17:24
30	4013,17925,32560 17,43917,08494	4016,41490 17,48157	1 00080,62544 70309	8,60348,85584,2841 188,31273,0854	8,60383,85692 188,61783	18: 0
31	4030,61842,41054 17,43904,80698	4033,89647 17,48181	1 00081,32853 70615	8,60537,16857,3695 187,49840,2152	8,60572,47475 187,80483	18:36
32	4048,05747,21752 17,43892,47590	4051,37828 17,48207	1 00082,03468 70921	8,60724,66697,5847 186,69107,4665	8,60760,27958 186,99883	19:12
33	4065,49639,69342 17,43880,09168	4068,86035 17,48231	1 00082,74389 71227	8,60911,35805,0512 185,89065,8441	8,60947,27841 186,19973	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99939,08270,19096 61063,32810	28 63625,32829 14258,50066	28 65370,83478 14249,77134	9,99973,53589,2159 26535,7123	11,45691,61950 216,78311	60: 0
99	99938,47206,86286 61367,75808	28 49366,82763 14117,38502	28 51121,06344 14108,65567	9,99973,27053,5036 26668,1689	11,45474,83639 215,70902	59:24
98	99937,85839,10478 61672,18621	28 35249,44261 13978,35482	28 37012,40777 13969,62545	9,99973,00385,3347 26800,6272	11,45259,12737 214,64554	58:48
97	99937,24166,91857 61976,61246	28 21271,08779 13841,36920	28 23042,78232 13832,63980	9,99972,73584,7075 26933,0870	11,45044,48183 213,59254	58:12
96	99936,62190,30611 62281,03682	28 07429,71859 13706,38823	28 09210,14252 13697,65881	9,99972,46651,6205 27065,5485	11,44830,88929 212,54983	57:36
95	99935,99909,26929 62585,45928	27 93723,33036 13573,37302	27 95512,48371 13564,64356	9,99972,19586,0720 27198,0117	11,44618,33946 211,51728	57: 0
94	99935,37323,81001 62889,87983	27 80149,95734 13442,28556	27 81947,84015 13433,55608	9,99971,92388,0603 27330,4766	11,44406,82218 210,49475	56:24
93	99934,74433,93018 63194,29847	27 66707,67178 13313,08878	27 68514,28407 13304,35927	9,99971,65057,5837 27462,9430	11,44196,32743 209,48206	55:48
92	99934,11239,63171 63498,71518	27 53394,58300 13185,74650	27 55209,92480 13177,01697	9,99971,37594,6407 27595,4111	11,43986,84537 208,47912	55:12
91	99933,47740,91653 63803,12997	27 40208,83650 13060,22340	27 42032,90783 13051,49384	9,99971,09999,2296 27727,8811	11,43778,36625 207,48575	54:36
90	99932,83937,78656 64107,54280	27 27148,61310 12936,48499	27 28981,41399 12927,75539	9,99970,82271,3485 27860,3526	11,43570,88050 206,50182	54: 0
89	99932,19830,24376 64411,95368	27 14212,12811 12814,49759	27 16053,65860 12805,76798	9,99970,54410,9959 27992,8258	11,43364,37868 205,52722	53:24
88	99931,55418,29008 64716,36261	27 01397,63052 12694,22833	27 03247,89062 12685,49868	9,99970,26418,1701 28125,3007	11,43158,85146 204,56179	52:48
87	99930,90701,92747 65020,76955	26 88703,40219 12575,64508	26 90562,39194 12566,91540	9,99969,98292,8694 28257,7775	11,42954,28967 203,60541	52:12
86	99930,25681,15792 65325,17452	26 76127,75711 12458,71649	26 77995,47654 12449,98678	9,99969,70035,0919 28390,2558	11,42750,68426 202,65796	51:36
85	99929,60355,98340 65629,57751	26 63669,04062 12343,41190	26 65545,48976 12334,68217	9,99969,41644,8361 28522,7359	11,42548,02630 201,71931	51: 0
84	99928,94726,40589 65933,97848	26 51325,62872 12229,70138	26 53210,80759 12220,97162	9,99969,13122,1002 28655,2179	11,42346,30699 200,78934	50:24
83	99928,28792,42741 66238,37745	26 39095,92734 12117,55569	26 40989,83597 12108,82590	9,99968,84466,8823 28787,7014	11,42145,51765 199,86793	49:48
82	99927,62554,04996 66542,77441	26 26978,37165 12006,94625	26 28881,01007 11998,21643	9,99968,55679,1809 28920,1868	11,41945,64972 198,95496	49:12
81	99926,96011,27555 66847,16934	26 14971,42540 11897,84511	26 16882,79364 11889,11526	9,99968,26758,9941 29052,6739	11,41746,69476 198,05032	48:36
80	99926,29164,10621 67151,56222	26 03073,58029 11790,22498	26 04993,67838 11781,49510	9,99967,97706,3202 29185,1628	11,41548,64444 197,15390	48: 0
79	99925,62012,54399 67455,95307	25 91283,35531 11684,05918	25 93212,18328 11675,32927	9,99967,68521,1574 29317,6535	11,41351,49054 196,26556	47:24
78	99924,94556,59092 67760,34186	25 79599,29613 11579,32162	25 81536,85401 11570,59169	9,99967,39203,5039 29450,1460	11,41155,22498 195,38524	46:48
77	99924,26796,24906 68064,72859	25 68019,97451 11475,98680	25 69966,26232 11467,25683	9,99967,09753,3579 29582,6402	11,40959,83974 194,51278	46:12
76	99923,58731,52047 68369,11324	25 56543,98771 11374,02977	25 58499,00549 11365,29978	9,99966,80170,7177 29715,1364	11,40765,32696 193,64812	45:36
75	99922,90362,40723 68673,49581	25 45169,95794 11273,42616	25 47133,70571 11264,69613	9,99966,50455,5813 29847,6342	11,40571,67884 192,79113	45: 0
74	99922,21688,91142 68977,87629	25 33896,53178 11174,15211	25 35869,00958 11165,42205	9,99966,20607,9471 29980,1339	11,40378,88771 191,94172	44:24
73	99921,52711,03513 69282,25466	25 22722,37967 11076,18429	25 24703,58753 11067,45421	9,99965,90627,8132 30112,6355	11,40186,94599 191,09977	43:48
72	99920,83428,78047 69586,63093	25 11646,19538 10979,49990	25 13636,13332 10970,76978	9,99965,60515,1777 30245,1388	11,39995,84622 190,26521	43:12
71	99920,13842,14954 69891,00508	25 00666,69548 10884,07662	25 02665,36354 10875,34646	9,99965,30270,0389 30377,6441	11,39805,58101 189,43793	42:36
70	99919,43951,14446 70195,37710	24 89782,61886 10789,89258	24 91790,01708 10781,16241	9,99964,99892,3948 30510,1511	11,39616,14308 188,61783	42: 0
69	99918,73755,76736 70499,74697	24 78992,72628 10696,92645	24 81008,85467 10688,19625	9,99964,69382,2437 30642,6601	11,39427,52525 187,80483	41:24
68	99918,03256,02039 70804,11471	24 68295,79983 10605,15732	24 70320,65842 10596,42707	9,99964,38739,5836 30775,1709	11,39239,72042 186,99883	40:48
67	99917,32451,90568 71108,48028	24 57690,64251 10514,56470	24 59724,23135 10505,83443	9,99964,07964,4127 30907,6835	11,39052,72159 186,19973	40:12

GRAD. 87.

2. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	4065,49639,69342 17,43880,09168	4068,86035 17,48231	1 00082,74389 71227	8,60911,35805,0512 185,89065,8441	8,60947,27841 186,19973	19:48
34	4082,93519,78510 17,43867,65435	4086,34266 17,48256	1 00083,45616 71532	8,61097,24870,8953 185,09706,5061	8,61133,47814 185,40747	20:24
35	4100,37387,43945 17,43855,16390	4103,82522 17,48281	1 00084,17148 71839	8,61282,34577,4014 184,31020,7612	8,61318,88561 184,62193	21: 0
36	4117,81242,60335 17,43842,62032	4121,30803 17,48306	1 00084,88987 72144	8,61466,65598,1626 183,53000,0646	8,61503,50754 183,84306	21:36
37	4135,25085,22367 17,43830,02363	4138,79109 17,48332	1 00085,61131 72451	8,61650,18598,2272 182,75636,0158	8,61687,35060 183,07073	22:12
38	4152,68915,24730 17,43817,37382	4156,27441 17,48357	1 00086,33582 72756	8,61832,94234,2430 181,98920,3548	8,61870,42133 182,30491	22:48
39	4170,12732,62112 17,43804,67088	4173,75798 17,48382	1 00087,06338 73062	8,62014,93154,5978 181,22844,9600	8,62052,72624 181,54548	23:24
40	4187,56537,29200 17,43791,91482	4191,24180 17,48408	1 00087,79400 73368	8,62196,15999,5578 180,47401,8445	8,62234,27172 180,79237	24: 0
41	4205,00329,20682 17,43779,10566	4208,72588 17,48434	1 00088,52768 73674	8,62376,63401,4023 179,72583,1541	8,62415,06409 180,04551	24:36
42	4222,44108,31248 17,43766,24336	4226,21022 17,48460	1 00089,26442 73980	8,62556,35984,5564 178,98381,1637	8,62595,10960 179,30482	25:12
43	4239,87874,55584 17,43753,32796	4243,69482 17,48485	1 00090,00422 74287	8,62735,34365,7201 178,24788,2752	8,62774,41442 178,57021	25:48
44	4257,31627,88380 17,43740,35942	4261,17967 17,48511	1 00090,74709 74592	8,62913,59153,9953 177,51797,0152	8,62952,98463 177,84162	26:24
45	4274,75368,24322 17,43727,33779	4278,66478 17,48538	1 00091,49301 74898	8,63091,10951,0105 176,79400,0316	8,63130,82625 177,11898	27: 0
46	4292,19095,58101 17,43714,26302	4296,15016 17,48564	1 00092,24199 75204	8,63267,90351,0421 176,07590,0919	8,63307,94523 176,40221	27:36
47	4309,62809,84403 17,43701,13514	4313,63580 17,48590	1 00092,99403 75510	8,63443,97941,1340 175,36360,0802	8,63484,34744 175,69123	28:12
48	4327,06510,97917 17,43687,95415	4331,12170 17,48616	1 00093,74913 75816	8,63619,34301,2142 174,65702,9955	8,63660,03867 174,98599	28:48
49	4344,50198,93332 17,43674,72004	4348,60786 17,48643	1 00094,50729 76123	8,63794,00004,2097 173,95611,9488	8,63835,02466 174,28640	29:24
50	4361,93873,65336 17,43661,43281	4366,09429 17,48670	1 00095,26852 76428	8,63967,95616,1585 173,26080,1611	8,64009,31106 173,59241	30: 0
51	4379,37535,08617 17,43648,09248	4383,58099 17,48696	1 00096,03280 76734	8,64141,21696,3196 172,57100,9613	8,64182,90347 172,90394	30:36
52	4396,81183,17865 17,43634,69902	4401,06795 17,48723	1 00096,80014 77041	8,64313,78797,2809 171,88667,7840	8,64355,80741 172,22093	31:12
53	4414,24817,87767 17,43621,25245	4418,55518 17,48751	1 00097,57055 77347	8,64485,67465,0649 171,20774,1674	8,64528,02834 171,54333	31:48
54	4431,68439,13012 17,43607,75277	4436,04269 17,48777	1 00098,34402 77652	8,64656,88239,2323 170,53413,7512	8,64699,57167 170,87104	32:24
55	4449,12046,88289 17,43594,19997	4453,53046 17,48805	1 00099,12054 77959	8,64827,41652,9835 169,86580,2745	8,64870,44271 170,20404	33: 0
56	4466,55641,08286 17,43580,59406	4471,01851 17,48831	1 00099,90013 78265	8,64997,28233,2580 169,20267,5746	8,65040,64675 169,54224	33:36
57	4483,99221,67692 17,43566,93505	4488,50682 17,48860	1 00100,68278 78571	8,65166,48500,8326 168,54469,5838	8,65210,18899 168,88558	34:12
58	4501,42788,61197 17,43553,22290	4505,99542 17,48886	1 00101,46849 78878	8,65335,02970,4164 167,89180,3289	8,65379,07457 168,23401	34:48
59	4518,86341,83487 17,43539,45767	4523,48428 17,48915	1 00102,25727 79183	8,65502,92150,7453 167,24393,9285	8,65547,30858 167,58748	35:24
60	4536,29881,29254 17,43525,63930	4540,97343 17,48942	1 00103,04910 79490	8,65670,16544,6738 166,60104,5914	8,65714,89606 166,94591	36: 0
61	4553,73406,93184 17,43511,76784	4558,46285 17,48970	1 00103,84400 79796	8,65836,76649,2652 165,96306,6151	8,65881,84197 166,30925	36:36
62	4571,16918,69968 17,43497,84327	4575,95255 17,48998	1 00104,64196 80102	8,66002,72955,8803 165,32994,3844	8,66048,15122 165,67746	37:12
63	4588,60416,54295 17,43483,86557	4593,44253 17,49026	1 00105,44298 80408	8,66168,05950,2647 164,70162,3684	8,66213,82868 165,05046	37:48
64	4606,03900,40852 17,43469,83478	4610,93279 17,49054	1 00106,24706 80715	8,66332,76112,6331 164,07805,1209	8,66378,87914 164,42822	38:24
65	4623,47370,24330 17,43455,75087	4628,42333 17,49082	1 00107,05421 81021	8,66496,83917,7540 163,45917,2769	8,66543,30736 163,81067	39: 0
66	4640,90825,99417 17,43441,61386	4645,91415 17,49111	1 00107,86442 81327	8,66660,29835,0309 162,84493,5525	8,66707,11803 163,19775	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99917,32451,90568 71108,48028	24 57690,64251 10514,56470	24 59724,23135 10505,83443	9,99964,07964,4127 30907,6835	11,39052,72159 186,19973	40:12
66	99916,61343,42540 71412,84369	24 47176,07781 10425,12859	24 49218,39692 10416,39829	9,99963,77056,7292 31040,1982	11,38866,52186 185,40747	39:36
65	99915,89930,58171 71717,20492	24 36750,94922 10336,82938	24 38801,99863 10328,09905	9,99963,46016,5310 31172,7146	11,38681,11439 184,62193	39: 0
64	99915,18213,37679 72021,56398	24 26414,11984 10249,64788	24 28473,89958 10240,91751	9,99963,14843,8164 31305,2330	11,38496,49246 183,84306	38:24
63	99914,46191,81281 72325,92083	24 16164,47196 10163,56531	24 18232,98207 10154,83491	9,99962,83538,5834 31437,7532	11,38312,64940 183,07073	37:48
62	99913,73865,89198 72630,27548	24 06000,90665 10078,56327	24 08078,14716 10069,83285	9,99962,52100,8302 31570,2755	11,38129,57867 182,30491	37:12
61	99913,01235,61650 72934,62792	23 95922,34338 9994,62376	23 98008,31431 9985,89329	9,99962,20530,5547 31702,7995	11,37947,27376 181,54548	36:36
60	99912,28300,98858 73238,97813	23 85927,71962 9911,72913	23 88022,42102 9902,99865	9,99961,88827,7552 31835,3257	11,37765,72828 180,79237	36: 0
59	99911,55062,01045 73543,32613	23 76015,99049 9829,86214	23 78119,42237 9821,13161	9,99961,56992,4295 31967,8536	11,37584,93591 180,04551	35:24
58	99910,81518,68432 73847,67187	23 66186,12835 9749,00583	23 68298,29076 9740,27528	9,99961,25024,5759 32100,3836	11,37404,89040 179,30482	34:48
57	99910,07671,01245 74152,01537	23 56437,12252 9669,14367	23 58558,01548 9660,41308	9,99960,92924,1923 32232,9155	11,37225,58558 178,57021	34:12
56	99909,33518,99708 74456,35660	23 46767,97885 9590,25942	23 48897,60240 9581,52880	9,99960,60691,2768 32365,4494	11,37047,01537 177,84162	33:36
55	99908,59062,64048 74760,69558	23 37177,71943 9512,33716	23 39316,07360 9503,60650	9,99960,28325,8274 32497,9852	11,36869,17375 177,11898	33: 0
54	99907,84301,94490 75065,03227	23 27665,38227 9435,36132	23 29812,46710 9426,63065	9,99959,95827,8422 32630,5231	11,36692,05477 176,40221	32:24
53	99907,09236,91263 75369,36668	23 18230,02095 9359,31666	23 20385,83645 9350,58594	9,99959,63197,3191 32763,0629	11,36515,65256 175,69123	31:48
52	99906,33867,54595 75673,69878	23 08870,70429 9284,18819	23 11035,25051 9275,45743	9,99959,30434,2562 32895,6047	11,36339,96133 174,98599	31:12
51	99905,58193,84717 75978,02859	22 99586,51610 9209,96126	23 01759,79308 9201,23047	9,99958,97538,6515 33028,1486	11,36164,97534 174,28640	30:36
50	99904,82215,81858 76282,35608	22 90376,55484 9136,62150	22 92558,56261 9127,89069	9,99958,64510,5029 33160,6944	11,35990,68894 173,59241	30: 0
49	99904,05933,46250 76586,68125	22 81239,93334 9064,15485	22 83430,67192 9055,42399	9,99958,31349,8085 33293,2423	11,35817,09653 172,90394	29:24
48	99903,29346,78125 76891,00409	22 72175,77849 8992,54747	22 74375,24793 8983,81659	9,99957,98056,5662 33425,7922	11,35644,19259 172,22093	28:48
47	99902,52455,77716 77195,32457	22 63183,23102 8921,78585	22 65391,43134 8913,05494	9,99957,64630,7740 33558,3442	11,35471,97166 171,54333	28:12
46	99901,75260,45259 77499,64271	22 54261,44517 8851,85674	22 56478,37640 8843,12578	9,99957,31072,4298 33690,8982	11,35300,42833 170,87104	27:36
45	99900,97760,80988 77803,95850	22 45409,58843 8782,74708	22 47635,25062 8774,01610	9,99956,97381,5316 33823,4542	11,35129,55729 170,20404	27: 0
44	99900,19956,85138 78108,27190	22 36626,84135 8714,44417	22 38861,23452 8705,71315	9,99956,63558,0774 33956,0123	11,34959,35325 169,54224	26:24
43	99899,41848,57948 78412,58294	22 27912,39718 8646,93548	22 30155,52137 8638,20442	9,99956,29602,0651 34088,5726	11,34789,81101 168,88558	25:48
42	99898,63435,99654 78716,89157	22 19265,46170 8580,20874	22 21517,31695 8571,47765	9,99955,95513,4925 34221,1348	11,34620,92543 168,23401	25:12
41	99897,84719,10497 79021,19782	22 10685,25296 8514,25191	22 12945,83930 8505,52079	9,99955,61292,3577 34353,6991	11,34452,69142 167,58748	24:36
40	99897,05697,90715 79325,50166	22 02171,00105 8449,05323	22 04440,31851 8440,32207	9,99955,26938,6586 34486,2657	11,34285,10394 166,94591	24: 0
39	99896,26372,40549 79629,80308	21 93721,94782 8384,60108	21 95999,99644 8375,86989	9,99954,92452,3929 34618,8342	11,34118,15803 166,30925	23:24
38	99895,46742,60241 79934,10207	21 85337,34674 8320,88414	21 87624,12655 8312,15291	9,99954,57833,5587 34751,4048	11,33951,84878 165,67746	22:48
37	99894,66808,50034 80238,39863	21 77016,46260 8257,89125	21 79311,97364 8249,15999	9,99954,23082,1539 34883,9777	11,33786,17132 165,05046	22:12
36	99893,86570,10171 80542,69274	21 68758,57135 8195,61148	21 71062,81365 8186,88019	9,99953,88198,1762 35016,5526	11,33621,12086 164,42822	21:36
35	99893,06027,40897 80846,98441	21 60562,95987 8134,03413	21 62875,93346 8125,30279	9,99953,53181,6236 35149,1297	11,33456,69264 163,81067	21: 0
34	99892,25180,42456 81151,27361	21 52428,92574 8073,14864	21 54750,63067 8064,41728	9,99953,18032,4939 35281,7089	11,33292,88197 163,19775	20:24

GRAD. 87.

2. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	4658,34267,60803	4663,40526	1 00108,67769	8,66823,14328,5834	8,66870,31578	40:12
	17,43427,42373	17,49139	81633	162,23528,7425	162,58943	
68	4675,77695,03176	4680,89665	1 00109,49402	8,66985,37857,3259	8,67032,90521	40:48
	17,43413,18050	17,49167	81940	161,63017,7194	161,98564	
69	4693,21108,21226	4698,38832	1 00110,31342	8,67147,00875,0453	8,67194,89085	41:24
	17,43398,88417	17,49197	82246	161,02955,4317	161,38635	
70	4710,64507,09643	4715,88029	1 00111,13588	8,67308,03830,4770	8,67356,27720	42: 0
	17,43384,53471	17,49225	82552	160,43336,9026	160,79149	
71	4728,07891,63114	4733,37254	1 00111,96140	8,67468,47167,3796	8,67517,06869	42:36
	17,43370,13217	17,49254	82859	159,84157,2286	160,20102	
72	4745,51261,76331	4750,86508	1 00112,78999	8,67628,31324,6082	8,67677,26971	43:12
	17,43355,67651	17,49283	83165	159,25411,5786	159,61489	
73	4762,94617,43982	4768,35791	1 00113,62164	8,67787,56736,1868	8,67836,88460	43:48
	17,43341,16774	17,49312	83471	158,67095,1914	159,03305	
74	4780,37958,60756	4785,85103	1 00114,45635	8,67946,23831,3782	8,67995,91765	44:24
	17,43326,60588	17,49342	83778	158,09203,3757	158,45546	
75	4797,81285,21344	4803,34445	1 00115,29413	8,68104,33034,7539	8,68154,37311	45: 0
	17,43311,99090	17,49371	84084	157,51731,5084	157,88206	
76	4815,24597,20434	4820,83816	1 00116,13497	8,68261,84766,2623	8,68312,25517	45:36
	17,43297,32283	17,49400	84390	156,94675,0327	157,31283	
77	4832,67894,52717	4838,33216	1 00116,97887	8,68418,79441,2950	8,68469,56800	46:12
	17,43282,60164	17,49430	84697	156,38029,4582	156,74770	
78	4850,11177,12881	4855,82646	1 00117,82584	8,68575,17470,7532	8,68626,31570	46:48
	17,43267,82735	17,49459	85003	155,81790,3585	156,18663	
79	4867,54444,95616	4873,32105	1 00118,67587	8,68730,99261,1117	8,68782,50233	47:24
	17,43252,99997	17,49489	85310	155,25953,3706	155,62959	
80	4884,97697,95613	4890,81594	1 00119,52897	8,68886,25214,4823	8,68938,13192	48: 0
	17,43238,11948	17,49519	85616	154,70514,1941	155,07652	
81	4902,40936,07561	4908,31113	1 00120,38513	8,69040,95728,6764	8,69093,20844	48:36
	17,43223,18589	17,49549	85922	154,15468,5892	154,52739	
82	4919,84159,26150	4925,80662	1 00121,24435	8,69195,11197,2656	8,69247,73583	49:12
	17,43208,19919	17,49579	86229	153,60812,3764	153,98216	
83	4937,27367,46069	4943,30241	1 00122,10664	8,69348,72009,6420	8,69401,71799	49:48
	17,43193,15939	17,49610	86536	153,06541,4352	153,44077	
84	4954,70560,62008	4960,79851	1 00122,97200	8,69501,78551,0772	8,69555,15876	50:24
	17,43178,06650	17,49639	86842	152,52651,7029	152,90320	
85	4972,13738,68658	4978,29490	1 00123,84042	8,69654,31202,7801	8,69708,06196	51: 0
	17,43162,92050	17,49670	87148	151,99139,1737	152,36941	
86	4989,56901,60708	4995,79160	1 00124,71190	8,69806,30341,9538	8,69860,43137	51:36
	17,43147,72141	17,49701	87455	151,45999,8980	151,83933	
87	5007,00049,32849	5013,28861	1 00125,58645	8,69957,76341,8518	8,70012,27070	52:12
	17,43132,46921	17,49731	87762	150,93229,9810	151,31297	
88	5024,43181,79770	5030,78592	1 00126,46407	8,70108,69571,8328	8,70163,58367	52:48
	17,43117,16391	17,49762	88068	150,40825,5815	150,79024	
89	5041,86298,96161	5048,28354	1 00127,34475	8,70259,10397,4143	8,70314,37391	53:24
	17,43101,80552	17,49792	88375	149,88782,9120	150,27115	
90	5059,29400,76713	5065,78146	1 00128,22850	8,70408,99180,3263	8,70464,64506	54: 0
	17,43086,39403	17,49824	88681	149,37098,2371	149,75562	
91	5076,72487,16116	5083,27970	1 00129,11531	8,70558,36278,5634	8,70614,40068	54:36
	17,43070,92945	17,49855	88988	148,85767,8719	149,24365	
92	5094,15558,09061	5100,77825	1 00130,00519	8,70707,22046,4353	8,70763,64433	55:12
	17,43055,41176	17,49886	89294	148,34788,1830	148,73518	
93	5111,58613,50237	5118,27711	1 00130,89813	8,70855,56834,6183	8,70912,37951	55:48
	17,43039,84097	17,49917	89601	147,84155,5856	148,23018	
94	5129,01653,34334	5135,77628	1 00131,79414	8,71003,40990,2039	8,71060,60969	56:24
	17,43024,21710	17,49948	89908	147,33866,5440	147,72861	
95	5146,44677,56044	5153,27576	1 00132,69322	8,71150,74856,7479	8,71208,33830	57: 0
	17,43008,54013	17,49980	90214	146,83917,5705	147,23045	
96	5163,87686,10057	5170,77556	1 00133,59536	8,71297,58774,3184	8,71355,56875	57:36
	17,42992,81005	17,50012	90521	146,34305,2240	146,73565	
97	5181,30678,91062	5188,27568	1 00134,50057	8,71443,93079,5424	8,71502,30440	58:12
	17,42977,02690	17,50043	90828	145,85026,1101	146,24419	
98	5198,73655,93752	5205,77611	1 00135,40885	8,71589,78105,6525	8,71648,54859	58:48
	17,42961,19063	17,50075	91134	145,36076,8796	145,75603	
99	5216,16617,12815	5223,27686	1 00136,32019	8,71735,14182,5321	8,71794,30462	59:24
	17,42945,30129	17,50107	91441	144,87454,2284	145,27112	
100	5233,59562,42944	5240,77793	1 00137,23460	8,71880,01636,7605	8,71939,57574	60: 0
	17,42929,35884	17,50139	91748	144,39154,8957	144,78945	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99891,44029,15095 81455,56033	21 44355,77710 8012,94473	21 46686,21339 8004,21332	9,99952,82750,7850 35414,2902	11,33129,68422 162,58943	19:48
32	99890,62573,59062 81759,84458	21 36342,83237 7953,41221	21 38682,00007 7944,68078	9,99952,47336,4948 35546,8738	11,32967,09479 161,98564	19:12
31	99889,80813,74604 82064,12634	21 28389,42016 7894,54119	21 30737,31929 7885,80971	9,99952,11789,6210 35679,4595	11,32805,10915 161,38635	18:36
30	99888,98749,61970 82368,40559	21 20494,87897 7836,32186	21 22851,50958 7827,59035	9,99951,76110,1615 35812,0474	11,32643,72280 160,79149	18: 0
29	99888,16381,21411 82672,68234	21 12658,55711 7778,74467	21 15023,91923 7770,01312	9,99951,40298,1141 35944,6374	11,32482,93131 160,20102	17:24
28	99887,33708,53177 82976,95657	21 04879,81244 7721,80019	21 07253,90611 7713,06860	9,99951,04353,4767 36077,2297	11,32322,73029 159,61489	16:48
27	99886,50731,57520 83281,22826	20 97158,01225 7665,47918	20 99540,83751 7656,74757	9,99950,68276,2470 36209,8242	11,32163,11540 159,03305	16:12
26	99885,67450,34694 83585,49743	20 89492,53307 7609,77259	20 91884,08994 7601,04094	9,99950,32066,4228 36342,4208	11,32004,08235 158,45546	15:36
25	99884,83864,84951 83889,76405	20 81882,76048 7554,67151	20 84283,04900 7545,93981	9,99949,95724,0020 36475,0198	11,31845,62689 157,88206	15: 0
24	99883,99975,08546 84194,02811	20 74328,08897 7500,16720	20 76737,10919 7491,43547	9,99949,59248,9822 36607,6208	11,31687,74483 157,31283	14:24
23	99883,15781,05735 84498,28961	20 66827,92177 7446,25104	20 69245,67372 7437,51928	9,99949,22641,3614 36740,2242	11,31530,43200 156,74770	13:48
22	99882,31282,76774 84802,54853	20 59381,67073 7392,91465	20 61808,15444 7384,18284	9,99948,85901,1372 36872,8298	11,31373,68430 156,18663	13:12
21	99881,46480,21921 85106,80487	20 51988,75608 7340,14971	20 54423,97160 7331,41787	9,99948,49028,3074 37005,4377	11,31217,49767 155,62959	12:36
20	99880,61373,41434 85411,05862	20 44648,60637 7287,94810	20 47092,55373 7279,21622	9,99948,12022,8697 37138,0478	11,31061,86808 155,07652	12: 0
19	99879,75962,35572 85715,30976	20 37360,65827 7236,30182	20 39813,33751 7227,56991	9,99947,74884,8219 37270,6602	11,30906,79156 154,52739	11:24
18	99878,90247,04596 86019,55830	20 30124,35645 7185,20303	20 32585,76760 7176,47108	9,99947,37614,1617 37403,2748	11,30752,26417 153,98216	10:48
17	99878,04227,48766 86323,80422	20 22939,15342 7134,64403	20 25409,29652 7125,91204	9,99947,00210,8869 37535,8917	11,30598,28201 153,44077	10:12
16	99877,17903,68344 86628,04749	20 15804,50939 7084,61721	20 18283,38448 7075,88518	9,99946,62674,9952 37668,5110	11,30444,84124 152,90320	9:36
15	99876,31275,63595 86932,28815	20 08719,89218 7035,11516	20 11207,49930 7026,38310	9,99946,25006,4842 37801,1326	11,30291,93804 152,36941	9: 0
14	99875,44343,34780 87236,52614	20 01684,77702 6986,13055	20 04181,11620 6977,39844	9,99945,87205,3516 37933,7563	11,30139,56863 151,83933	8:24
13	99874,57106,82166 87540,76149	19 94698,64647 6937,65620	19 97203,71776 6928,92406	9,99945,49271,5953 38066,3825	11,29987,72930 151,31297	7:48
12	99873,69566,06017 87844,99415	19 87760,99027 6889,68503	19 90274,79370 6880,95285	9,99945,11205,2128 38199,0111	11,29836,41633 150,79024	7:12
11	99872,81721,06602 88149,22416	19 80871,30524 6842,21013	19 83393,84085 6833,47791	9,99944,73006,2017 38331,6418	11,29685,62609 150,27115	6:36
10	99871,93571,84186 88453,45147	19 74029,09511 6795,22466	19 76560,36294 6786,49240	9,99944,34674,5599 38464,2750	11,29535,35494 149,75562	6: 0
9	99871,05118,39039 88757,67608	19 67233,87045 6748,72191	19 69773,87054 6739,98962	9,99943,96210,2849 38596,9105	11,29385,59932 149,24365	5:24
8	99870,16360,71431 89061,89800	19 60485,14854 6702,69530	19 63033,88092 6693,96297	9,99943,57613,3744 38729,5483	11,29236,35567 148,73518	4:48
7	99869,27298,81631 89366,11721	19 53782,45324 6657,13836	19 56339,91795 6648,40598	9,99943,18883,8261 38862,1886	11,29087,62049 148,23018	4:12
6	99868,37932,69910 89670,33368	19 47125,31488 6612,04469	19 49691,51197 6603,31228	9,99942,80021,6375 38994,8312	11,28939,39031 147,72861	3:36
5	99867,48262,36542 89974,54743	19 40513,27019 6567,40807	19 43088,19969 6558,67562	9,99942,41026,8063 39127,4762	11,28791,66170 147,23045	3: 0
4	99866,58287,81799 90278,75844	19 33945,86212 6523,22232	19 36529,52407 6514,48983	9,99942,01899,3301 39260,1236	11,28644,43125 146,73565	2:24
3	99865,68009,05955 90582,96670	19 27422,63980 6479,48139	19 30015,03424 6470,74886	9,99941,62639,2065 39392,7733	11,28497,69560 146,24419	1:48
2	99864,77426,09285 90887,17219	19 20943,15841 6436,17934	19 23544,28538 6427,44676	9,99941,23246,4332 39525,4256	11,28351,45141 145,75603	1:12
1	99863,86538,92066 91191,37492	19 14506,97907 6393,31030	19 17116,83862 6384,57769	9,99940,83721,0076 39658,0801	11,28205,69538 145,27112	0:36
0	99862,95347,54574 91495,57488	19 08113,66877 6350,86853	19 10732,26093 6342,13588	9,99940,44062,9275 39790,7371	11,28060,42426 144,78945	0: 0

GRAD. 87.

3. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	5233,59562,42944 17,42929,35884	5240,77793 17,50139	1 00137,23460 91748	8,71880,01636,7605 144,39154,8957	8,71939,57574 144,78945	0: 0
1	5251,02491,78828 17,42913,36331	5258,27932 17,50171	1 00138,15208 92054	8,72024,40791,6562 143,91175,6647	8,72084,36519 144,31100	0:36
2	5268,45405,15159 17,42897,31467	5275,78103 17,50203	1 00139,07262 92361	8,72168,31967,3209 143,43513,3608	8,72228,67619 143,83569	1:12
3	5285,88302,46626 17,42881,21296	5293,28306 17,50236	1 00139,99623 92668	8,72311,75480,6817 142,96164,8512	8,72372,51188 143,36354	1:48
4	5303,31183,67922 17,42865,05814	5310,78542 17,50268	1 00140,92291 92975	8,72454,71645,5329 142,49127,0443	8,72515,87542 142,89448	2:24
5	5320,74048,73736 17,42848,85024	5328,28810 17,50301	1 00141,85266 93281	8,72597,20772,5772 142,02396,8891	8,72658,76990 142,42851	3: 0
6	5338,16897,58760 17,42832,58925	5345,79111 17,50333	1 00142,78547 93589	8,72739,23169,4663 141,55971,3741	8,72801,19841 141,96558	3:36
7	5355,59730,17685 17,42816,27517	5363,29444 17,50366	1 00143,72136 93895	8,72880,79140,8404 141,09847,5274	8,72943,16399 141,50567	4:12
8	5373,02546,45202 17,42799,90800	5380,79810 17,50399	1 00144,66031 94202	8,73021,88988,3678 140,64022,4153	8,73084,66966 141,04874	4:48
9	5390,45346,36002 17,42783,48773	5398,30209 17,50432	1 00145,60233 94508	8,73162,53010,7831 140,18493,1423	8,73225,71840 140,59478	5:24
10	5407,88129,84775 17,42767,01439	5415,80641 17,50465	1 00146,54741 94816	8,73302,71503,9254 139,73256,8498	8,73366,31318 140,14375	6: 0
11	5425,30896,86214 17,42750,48795	5433,31106 17,50498	1 00147,49557 95123	8,73442,44760,7752 139,28310,7163	8,73506,45693 139,69560	6:36
12	5442,73647,35009 17,42733,90843	5450,81604 17,50532	1 00148,44680 95429	8,73581,73071,4915 138,83651,9563	8,73646,15253 139,25035	7:12
13	5460,16381,25852 17,42717,27582	5468,32136 17,50565	1 00149,40109 95736	8,73720,56723,4478 138,39277,8196	8,73785,40288 138,80794	7:48
14	5477,59098,53434 17,42700,59012	5485,82701 17,50598	1 00150,35845 96043	8,73858,96001,2674 137,95185,5915	8,73924,21082 138,36833	8:24
15	5495,01799,12446 17,42683,85134	5503,33299 17,50632	1 00151,31888 96350	8,73996,91186,8589 137,51372,5911	8,74062,57915 137,93154	9: 0
16	5512,44482,97580 17,42667,05947	5520,83931 17,50666	1 00152,28238 96657	8,74134,42559,4500 137,07836,1718	8,74200,51069 137,49750	9:36
17	5529,87150,03527 17,42650,21452	5538,34597 17,50700	1 00153,24895 96964	8,74271,50395,6218 136,64573,7202	8,74338,00819 137,06620	10:12
18	5547,29800,24979 17,42633,31648	5555,85297 17,50733	1 00154,21859 97271	8,74408,14969,3420 136,21582,6558	8,74475,07439 136,63761	10:48
19	5564,72433,56627 17,42616,36537	5573,36030 17,50768	1 00155,19130 97578	8,74544,36551,9978 135,78860,4304	8,74611,71200 136,21172	11:24
20	5582,15049,93164 17,42599,36116	5590,86798 17,50802	1 00156,16708 97885	8,74680,15412,4282 135,36404,5273	8,74747,92372 135,78849	12: 0
21	5599,57649,29280 17,42582,30388	5608,37600 17,50836	1 00157,14593 98192	8,74815,51816,9555 134,94212,4618	8,74883,71221 135,36790	12:36
22	5617,00231,59668 17,42565,19351	5625,88436 17,50871	1 00158,12785 98499	8,74950,46029,4173 134,52281,7790	8,75019,08011 134,94991	13:12
23	5634,42796,79019 17,42548,03006	5643,39307 17,50905	1 00159,11284 98806	8,75084,98311,1963 134,10610,0555	8,75154,03002 134,53453	13:48
24	5651,85344,82025 17,42530,81353	5660,90212 17,50939	1 00160,10090 99113	8,75219,08921,2518 133,69194,8970	8,75288,56455 134,12170	14:24
25	5669,27875,63378 17,42513,54391	5678,41151 17,50975	1 00161,09203 99421	8,75352,78116,1488 133,28033,9387	8,75422,68625 133,71142	15: 0
26	5686,70389,17769 17,42496,22123	5695,92126 17,51009	1 00162,08624 99727	8,75486,06150,0875 132,87124,8450	8,75556,39767 133,30366	15:36
27	5704,12885,39892 17,42478,84546	5713,43135 17,51044	1 00163,08351 1,00034	8,75618,93274,9325 132,46465,3089	8,75689,70133 132,89838	16:12
28	5721,55364,24438 17,42461,41661	5730,94179 17,51079	1 00164,08385 1,00342	8,75751,39740,2414 132,06053,0511	8,75822,59971 132,49560	16:48
29	5738,97825,66099 17,42443,93468	5748,45258 17,51114	1 00165,08727 1,00648	8,75883,45793,2925 131,65885,8203	8,75955,09531 132,09524	17:24
30	5756,40269,59567 17,42426,39968	5765,96372 17,51150	1 00166,09375 1,00956	8,76015,11679,1128 131,25961,3923	8,76087,19055 131,69733	18: 0
31	5773,82695,99535 17,42408,81159	5783,47522 17,51184	1 00167,10331 1,01263	8,76146,37640,5051 130,86277,5699	8,76218,88788 131,30182	18:36
32	5791,25104,80694 17,42391,17044	5800,98706 17,51221	1 00168,11594 1,01570	8,76277,23918,0750 130,46832,1819	8,76350,18970 130,90869	19:12
33	5808,67495,97738 17,42373,47620	5818,49927 17,51256	1 00169,13164 1,01877	8,76407,70750,2569 130,07623,0839	8,76481,09839 130,51793	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99862,95347,54574 91495,57488	19 08113,66877 6350,86853	19 10732,26093 6342,13588	9,99940,44062,9275 39790,7371	11,28060,42426 144,78945	60: 0
99	99862,03851,97086 91799,77203	19 01762,80024 6308,84837	19 04390,12505 6300,11568	9,99940,04272,1904 39923,3966	11,27915,63481 144,31100	59:24
98	99861,12052,19883 92103,96641	18 95453,95187 6267,24425	18 98090,00937 6258,51152	9,99939,64348,7938 40056,0585	11,27771,32381 143,83569	58:48
97	99860,19948,23242 92408,15797	18 89186,70762 6226,05070	18 91831,49785 6217,31793	9,99939,24292,7353 40188,7228	11,27627,48812 143,36354	58:12
96	99859,27540,07445 92712,34671	18 82960,65692 6185,26233	18 85614,17992 6176,52952	9,99938,84104,0125 40321,3896	11,27484,12458 142,89448	57:36
95	99858,34827,72774 93016,53264	18 76775,39459 6144,87384	18 79437,65040 6136,14099	9,99938,43782,6229 40454,0589	11,27341,23010 142,42851	57: 0
94	99857,41811,19510 93320,71573	18 70630,52075 6104,88004	18 73301,50941 6096,14714	9,99938,03328,5640 40586,7306	11,27198,80159 141,96558	56:24
93	99856,48490,47937 93624,89598	18 64525,64071 6065,27578	18 67205,36227 6056,54285	9,99937,62741,8334 40719,4048	11,27056,83601 141,50567	55:48
92	99855,54865,58339 93929,07337	18 58460,36493 6026,05603	18 61148,81942 6017,32306	9,99937,22022,4286 40852,0815	11,26915,33034 141,04874	55:12
91	99854,60936,51002 94233,24790	18 52434,30890 5987,21583	18 55131,49636 5978,48281	9,99936,81170,3471 40984,7607	11,26774,28160 140,59478	54:36
90	99853,66703,26212 94537,41957	18 46447,09307 5948,75029	18 49153,01355 5940,01723	9,99936,40185,5864 41117,4424	11,26633,68682 140,14375	54: 0
89	99852,72165,84255 94841,58835	18 40498,34278 5910,65461	18 43212,99632 5901,92152	9,99935,99068,1440 41250,1266	11,26493,54307 139,69560	53:24
88	99851,77324,25420 95145,75425	18 34587,68817 5872,92407	18 37311,07480 5864,19093	9,99935,57818,0174 41382,8133	11,26353,84747 139,25035	52:48
87	99850,82178,49995 95449,91724	18 28714,76410 5835,55401	18 31446,88387 5826,82082	9,99935,16435,2041 41515,5026	11,26214,59712 138,80794	52:12
86	99849,86728,58271 95754,07733	18 22879,21009 5798,53985	18 25620,06305 5789,80664	9,99934,74919,7015 41648,1943	11,26075,78918 138,36833	51:36
85	99848,90974,50538 96058,23450	18 17080,67024 5761,87710	18 19830,25641 5753,14383	9,99934,33271,5072 41780,8887	11,25937,42085 137,93154	51: 0
84	99847,94916,27088 96362,38875	18 11318,79314 5725,56132	18 14077,11258 5716,82801	9,99933,91490,6185 41913,5856	11,25799,48931 137,49750	50:24
83	99846,98553,88213 96666,54006	18 05593,23182 5689,58813	18 08360,28457 5680,85478	9,99933,49577,0329 42046,2851	11,25661,99181 137,06620	49:48
82	99846,01887,34207 96970,68842	17 99903,64369 5653,95325	18 02679,42979 5645,21986	9,99933,07530,7478 42178,9871	11,25524,92561 136,63761	49:12
81	99845,04916,65365 97274,83384	17 94249,69044 5618,65245	17 97034,20993 5609,91902	9,99932,65351,7607 42311,6916	11,25388,28800 136,21172	48:36
80	99844,07641,81981 97578,97628	17 88631,03799 5583,68156	17 91424,29091 5574,94808	9,99932,23040,0691 42444,3989	11,25252,07628 135,78849	48: 0
79	99843,10062,84353 97883,11577	17 83047,35643 5549,03649	17 85849,34283 5540,30298	9,99931,80595,6702 42577,1086	11,25116,28779 135,36790	47:24
78	99842,12179,72776 98187,25225	17 77498,31994 5514,71320	17 80309,03985 5505,97963	9,99931,38018,5616 42709,8211	11,24980,91989 134,94991	46:48
77	99841,13992,47551 98491,38576	17 71983,60674 5480,70772	17 74803,06022 5471,97412	9,99930,95308,7405 42842,5360	11,24845,96998 134,53453	46:12
76	99840,15501,08975 98795,51626	17 66502,89902 5447,01613	17 69331,08610 5438,28248	9,99930,52466,2045 42975,2536	11,24711,43545 134,12170	45:36
75	99839,16705,57349 99099,64376	17 61055,88289 5413,63460	17 63892,80362 5404,90091	9,99930,09490,9509 43107,9739	11,24577,31375 133,71142	45: 0
74	99838,17605,92973 99403,76823	17 55642,24829 5380,55931	17 58487,90271 5371,82557	9,99929,66382,9770 43240,6967	11,24443,60233 133,30366	44:24
73	99837,18202,16150 99707,88968	17 50261,68898 5347,78654	17 53116,07714 5339,05276	9,99929,23142,2803 43373,4223	11,24310,29867 132,89838	43:48
72	99836,18494,27182 1,00012,00809	17 44913,90244 5315,31261	17 47777,02438 5306,57879	9,99928,79768,8580 43506,1504	11,24177,40029 132,49560	43:12
71	99835,18482,26373 1,00316,12345	17 39598,58983 5283,13390	17 42470,44559 5274,40004	9,99928,36262,7076 43638,8812	11,24044,90469 132,09524	42:36
70	99834,18166,14028 1,00620,23576	17 34315,45593 5251,24685	17 37196,04555 5242,51293	9,99927,92623,8264 43771,6148	11,23912,80945 131,69733	42: 0
69	99833,17545,90452 1,00924,34500	17 29064,20908 5219,64791	17 31953,53262 5210,91397	9,99927,48852,2116 43904,3509	11,23781,11212 131,30182	41:24
68	99832,16621,55952 1,01228,45117	17 23844,56117 5188,33368	17 26742,61865 5179,59967	9,99927,04947,8607 44037,0897	11,23649,81030 130,90869	40:48
67	99831,15393,10835 1,01532,55425	17 18656,22749 5157,30068	17 21563,01898 5148,56665	9,99926,60910,7710 44169,8313	11,23518,90161 130,51793	40:12

GRAD. 86.

3. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	5808,67495,97738 17,42373,47620	5818,49927 17,51256	1 00169,13164 1,01877	8,76407,70750,2569 130,07623,0839	8,76481,09839 130,51793	19:48
34	5826,09869,45358 17,42355,72888	5836,01183 17,51291	1 00170,15041 1,02185	8,76537,78373,3408 129,68648,1564	8,76611,61632 130,12951	20:24
35	5843,52225,18246 17,42337,92850	5853,52474 17,51327	1 00171,17226 1,02492	8,76667,47021,4972 129,29905,3055	8,76741,74583 129,74341	21: 0
36	5860,94563,11096 17,42320,07504	5871,03801 17,51364	1 00172,19718 1,02799	8,76796,76926,8027 128,91392,4623	8,76871,48924 129,35960	21:36
37	5878,36883,18600 17,42302,16851	5888,55165 17,51399	1 00173,22517 1,03106	8,76925,68319,2650 128,53107,5820	8,77000,84884 128,97809	22:12
38	5895,79185,35451 17,42284,20889	5906,06564 17,51435	1 00174,25623 1,03414	8,77054,21426,8470 128,15048,6445	8,77129,82693 128,59882	22:48
39	5913,21469,56340 17,42266,19622	5923,57999 17,51472	1 00175,29037 1,03720	8,77182,36475,4915 127,77213,6533	8,77258,42575 128,22180	23:24
40	5930,63735,75962 17,42248,13045	5941,09471 17,51508	1 00176,32757 1,04029	8,77310,13689,1448 127,39600,6349	8,77386,64755 127,84700	24: 0
41	5948,05983,89007 17,42230,01164	5958,60979 17,51544	1 00177,36786 1,04335	8,77437,53289,7797 127,02207,6398	8,77514,49455 127,47439	24:36
42	5965,48213,90171 17,42211,83973	5976,12523 17,51581	1 00178,41121 1,04643	8,77564,55497,4195 126,65032,7404	8,77641,96894 127,10398	25:12
43	5982,90425,74144 17,42193,61477	5993,64104 17,51617	1 00179,45764 1,04950	8,77691,20530,1599 126,28074,0321	8,77769,07292 126,73571	25:48
44	6000,32619,35621 17,42175,33672	6011,15721 17,51654	1 00180,50714 1,05258	8,77817,48604,1920 125,91329,6323	8,77895,80863 126,36960	26:24
45	6017,74794,69293 17,42157,00562	6028,67375 17,51691	1 00181,55972 1,05565	8,77943,39933,8243 125,54797,6800	8,78022,17823 126,00560	27: 0
46	6035,16951,69855 17,42138,62144	6046,19066 17,51728	1 00182,61537 1,05872	8,78068,94731,5043 125,18476,3359	8,78148,18383 125,64372	27:36
47	6052,59090,31999 17,42120,18420	6063,70794 17,51766	1 00183,67409 1,06180	8,78194,13207,8402 124,82363,7817	8,78273,82755 125,28393	28:12
48	6070,01210,50419 17,42101,69388	6081,22560 17,51802	1 00184,73589 1,06487	8,78318,95571,6219 124,46458,2201	8,78399,11148 124,92619	28:48
49	6087,43312,19807 17,42083,15050	6098,74362 17,51840	1 00185,80076 1,06795	8,78443,42029,8420 124,10757,8746	8,78524,03767 124,57052	29:24
50	6104,85395,34857 17,42064,55405	6116,26202 17,51877	1 00186,86871 1,07102	8,78567,52787,7166 123,75260,9882	8,78648,60819 124,21688	30: 0
51	6122,27459,90262 17,42045,90453	6133,78079 17,51914	1 00187,93973 1,07409	8,78691,28048,7048 123,39965,8248	8,78772,82507 123,86525	30:36
52	6139,69505,80715 17,42027,20196	6151,29993 17,51952	1 00189,01382 1,07717	8,78814,68014,5296 123,04870,6674	8,78896,69032 123,51564	31:12
53	6157,11533,00911 17,42008,44631	6168,81945 17,51990	1 00190,09099 1,08025	8,78937,72885,1970 122,69973,8188	8,79020,20596 123,16799	31:48
54	6174,53541,45542 17,41989,63760	6186,33935 17,52028	1 00191,17124 1,08332	8,79060,42859,0158 122,35273,6007	8,79143,37395 122,82231	32:24
55	6191,95531,09302 17,41970,77582	6203,85963 17,52065	1 00192,25456 1,08640	8,79182,78132,6165 122,00768,3536	8,79266,19626 122,47859	33: 0
56	6209,37501,86884 17,41951,86099	6221,38028 17,52104	1 00193,34096 1,08947	8,79304,78900,9701 121,66456,4370	8,79388,67485 122,13681	33:36
57	6226,79453,72983 17,41932,89308	6238,90132 17,52142	1 00194,43043 1,09255	8,79426,45357,4071 121,32336,2285	8,79510,81166 121,79692	34:12
58	6244,21386,62291 17,41913,87213	6256,42274 17,52180	1 00195,52298 1,09563	8,79547,77693,6356 120,98406,1238	8,79632,60858 121,45896	34:48
59	6261,63300,49504 17,41894,79809	6273,94454 17,52219	1 00196,61861 1,09870	8,79668,76099,7594 120,64664,5366	8,79754,06754 121,12286	35:24
60	6279,05195,29313 17,41875,67102	6291,46673 17,52257	1 00197,71731 1,10177	8,79789,40764,2960 120,31109,8978	8,79875,19040 120,78865	36: 0
61	6296,47070,96415 17,41856,49086	6308,98930 17,52295	1 00198,81908 1,10486	8,79909,71874,1938 119,97740,6562	8,79995,97905 120,45628	36:36
62	6313,88927,45501 17,41837,25766	6326,51225 17,52334	1 00199,92394 1,10793	8,80029,69614,8500 119,64555,2775	8,80116,43533 120,12576	37:12
63	6331,30764,71267 17,41817,97139	6344,03559 17,52373	1 00201,03187 1,11101	8,80149,34170,1275 119,31552,2442	8,80236,56109 119,79706	37:48
64	6348,72582,68406 17,41798,63207	6361,55932 17,52412	1 00202,14288 1,11408	8,80268,65722,3717 118,98730,0554	8,80356,35815 119,47016	38:24
65	6366,14381,31613 17,41779,23968	6379,08344 17,52451	1 00203,25696 1,11716	8,80387,64452,4271 118,66087,2269	8,80475,82831 119,14506	39: 0
66	6383,56160,55581 17,41759,79425	6396,60795 17,52490	1 00204,37412 1,12024	8,80506,30539,6540 118,33622,2904	8,80594,97337 118,82175	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99831,15393,10835 1,01532,55425	17 18656,22749 5157,30068	17 21563,01898 5148,56665	9,99926,60910,7710 44169,8313	11,23518,90161 130,51793	40:12
66	99830,13860,55410 1,01836,65424	17 13498,92681 5126,54562	17 16414,45233 5117,81153	9,99926,16740,9397 44302,5756	11,23388,38368 130,12951	39:36
65	99829,12023,89986 1,02140,75114	17 08372,38119 5096,06514	17 11296,64080 5087,33101	9,99925,72438,3641 44435,3225	11,23258,25417 129,74341	39: 0
64	99828,09883,14872 1,02444,84491	17 03276,31605 5065,85600	17 06209,30979 5057,12182	9,99925,28003,0416 44568,0722	11,23128,51076 129,35960	38:24
63	99827,07438,30381 1,02748,93557	16 98210,46005 5035,91499	17 01152,18797 5027,18078	9,99924,83434,9694 44700,8245	11,22999,15116 128,97809	37:48
62	99826,04689,36824 1,03053,02310	16 93174,54506 5006,23896	16 96125,00719 4997,50469	9,99924,38734,1449 44833,5797	11,22870,17307 128,59882	37:12
61	99825,01636,34514 1,03357,10749	16 88168,30610 4976,82476	16 91127,50250 4968,09044	9,99923,93900,5652 44966,3376	11,22741,57425 128,22180	36:36
60	99823,98279,23765 1,03661,18872	16 83191,48134 4947,66934	16 86159,41206 4938,93499	9,99923,48934,2276 45099,0982	11,22613,35245 127,84700	36: 0
59	99822,94618,04893 1,03965,26681	16 78243,81200 4918,76967	16 81220,47707 4910,03527	9,99923,03835,1294 45231,8615	11,22485,50545 127,47439	35:24
58	99821,90652,78212 1,04269,34173	16 73325,04233 4890,12277	16 76310,44180 4881,38833	9,99922,58603,2679 45364,6277	11,22358,03106 127,10398	34:48
57	99820,86383,44039 1,04573,41346	16 68434,91956 4861,72570	16 71429,05347 4852,99120	9,99922,13238,6402 45497,3966	11,22230,92708 126,73571	34:12
56	99819,81810,02693 1,04877,48202	16 63573,19386 4833,57556	16 66576,06227 4824,84102	9,99921,67741,2436 45630,1683	11,22104,19137 126,36960	33:36
55	99818,76932,54491 1,05181,54737	16 58739,61830 4805,66948	16 61751,22125 4796,93490	9,99921,22111,0753 45762,9428	11,21977,82177 126,00560	33: 0
54	99817,71750,99754 1,05485,60953	16 53933,94882 4778,00469	16 56954,28635 4769,27006	9,99920,76348,1325 45895,7200	11,21851,81617 125,64372	32:24
53	99816,66265,38801 1,05789,66847	16 49155,94413 4750,57838	16 52185,01629 4741,84370	9,99920,30452,4125 46028,5002	11,21726,17245 125,28393	31:48
52	99815,60475,71954 1,06093,72419	16 44405,36575 4723,38782	16 47443,17259 4714,65309	9,99919,84423,9123 46161,2831	11,21600,88852 124,92619	31:12
51	99814,54381,99535 1,06397,77668	16 39681,97793 4696,43032	16 42728,51950 4687,69556	9,99919,38262,6292 46294,0688	11,21475,96233 124,57052	30:36
50	99813,47984,21867 1,06701,82592	16 34985,54761 4669,70324	16 38040,82394 4660,96842	9,99918,91968,5604 46426,8573	11,21351,39181 124,21688	30: 0
49	99812,41282,39275 1,07005,87192	16 30315,84437 4643,20394	16 33379,85552 4634,46908	9,99918,45541,7031 46559,6487	11,21227,17493 123,86525	29:24
48	99811,34276,52083 1,07309,91466	16 25672,64043 4616,92984	16 28745,38644 4608,19493	9,99917,98982,0544 46692,4430	11,21103,30968 123,51564	28:48
47	99810,26966,60617 1,07613,95412	16 21055,71059 4590,87841	16 24137,19151 4582,14346	9,99917,52289,6114 46825,2401	11,20979,79404 123,16799	28:12
46	99809,19352,65205 1,07917,99032	16 16464,83218 4565,04714	16 19555,04805 4556,31213	9,99917,05464,3713 46958,0401	11,20856,62605 122,82231	27:36
45	99808,11434,66173 1,08222,02321	16 11899,78504 4539,43354	16 14998,73592 4530,69849	9,99916,58506,3312 47090,8429	11,20733,80374 122,47859	27: 0
44	99807,03212,63852 1,08526,05282	16 07360,35150 4514,03518	16 10468,03743 4505,30009	9,99916,11415,4883 47223,6486	11,20611,32515 122,13681	26:24
43	99805,94686,58570 1,08830,07912	16 02846,31632 4488,84966	16 05962,73734 4480,11451	9,99915,64191,8397 47356,4572	11,20489,18834 121,79692	25:48
42	99804,85856,50658 1,09134,10210	15 98357,46666 4463,87460	16 01482,62283 4455,13941	9,99915,16835,3825 47489,2687	11,20367,39142 121,45896	25:12
41	99803,76722,40448 1,09438,12176	15 93893,59206 4439,10767	15 97027,48342 4430,37243	9,99914,69346,1138 47622,0831	11,20245,93246 121,12286	24:36
40	99802,67284,28272 1,09742,13809	15 89454,48439 4414,54656	15 92597,11099 4405,81127	9,99914,21724,0307 47754,9004	11,20124,80960 120,78865	24: 0
39	99801,57542,14463 1,10046,15108	15 85039,93783 4390,18899	15 88191,29972 4381,45365	9,99913,73969,1303 47887,7207	11,20004,02095 120,45628	23:24
38	99800,47495,99355 1,10350,16070	15 80649,74884 4366,03273	15 83809,84607 4357,29735	9,99913,26081,4096 48020,5438	11,19883,56467 120,12576	22:48
37	99799,37145,83285 1,10654,16697	15 76283,71611 4342,07556	15 79452,54872 4333,34012	9,99912,78060,8658 48153,3700	11,19763,43891 119,79706	22:12
36	99798,26491,66588 1,10958,16987	15 71941,64055 4318,31529	15 75119,20860 4309,57981	9,99912,29907,4958 48286,1989	11,19643,64185 119,47016	21:36
35	99797,15533,49601 1,11262,16939	15 67623,32526 4294,74978	15 70809,62879 4286,01425	9,99911,81621,2969 48419,0310	11,19524,17169 119,14506	21: 0
34	99796,04271,32662 1,11566,16552	15 63328,57548 4271,37690	15 66523,61454 4262,64132	9,99911,33202,2659 48551,8660	11,19405,02663 118,82175	20:24

GRAD. 86.

3. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	6400,97920,35006	6414,13285	1 00205,49436	8,80624,64161,9444	8,80713,79512	40:12
	17,41740,29574	17,52530	1,12332	118,01333,7939	118,50018	
68	6418,39660,64580	6431,65815	1 00206,61768	8,80742,65495,7383	8,80832,29530	40:48
	17,41720,74420	17,52569	1,12639	117,69220,3006	118,18038	
69	6435,81381,39000	6449,18384	1 00207,74407	8,80860,34716,0389	8,80950,47568	41:24
	17,41701,13958	17,52608	1,12947	117,37280,3901	117,86231	
70	6453,23082,52958	6466,70992	1 00208,87354	8,80977,71996,4290	8,81068,33799	42: 0
	17,41681,48192	17,52647	1,13256	117,05512,6566	117,54596	
71	6470,64764,01150	6484,23639	1 00210,00610	8,81094,77509,0856	8,81185,88395	42:36
	17,41661,77119	17,52688	1,13562	116,73915,7097	117,23131	
72	6488,06425,78269	6501,76327	1 00211,14172	8,81211,51424,7953	8,81303,11526	43:12
	17,41642,00743	17,52727	1,13871	116,42488,1740	116,91837	
73	6505,48067,79012	6519,29054	1 00212,28043	8,81327,93912,9693	8,81420,03363	43:48
	17,41622,19059	17,52767	1,14179	116,11228,6887	116,60711	
74	6522,89689,98071	6536,81821	1 00213,42222	8,81444,05141,6580	8,81536,64074	44:24
	17,41602,32072	17,52807	1,14486	115,80135,9076	116,29751	
75	6540,31292,30143	6554,34628	1 00214,56708	8,81559,85277,5656	8,81652,93825	45: 0
	17,41582,39778	17,52847	1,14794	115,49208,4991	115,98956	
76	6557,72874,69921	6571,87475	1 00215,71502	8,81675,34486,0647	8,81768,92781	45:36
	17,41562,42180	17,52888	1,15103	115,18445,1450	115,68325	
77	6575,14437,12101	6589,40363	1 00216,86605	8,81790,52931,2097	8,81884,61106	46:12
	17,41542,39277	17,52927	1,15410	114,87844,5419	115,37858	
78	6592,55979,51378	6606,93290	1 00218,02015	8,81905,40775,7516	8,81999,98964	46:48
	17,41522,31068	17,52968	1,15718	114,57405,3998	115,07551	
79	6609,97501,82446	6624,46258	1 00219,17733	8,82019,98181,1514	8,82115,06515	47:24
	17,41502,17554	17,53009	1,16026	114,27126,4421	114,77406	
80	6627,39004,00000	6641,99267	1 00220,33759	8,82134,25307,5935	8,82229,83921	48: 0
	17,41481,98736	17,53049	1,16334	113,97006,4062	114,47418	
81	6644,80485,98736	6659,52316	1 00221,50093	8,82248,22313,9997	8,82344,31339	48:36
	17,41461,74613	17,53090	1,16642	113,67044,0421	114,17589	
82	6662,21947,73349	6677,05406	1 00222,66735	8,82361,89358,0418	8,82458,48928	49:12
	17,41441,45184	17,53131	1,16950	113,37238,1132	113,87916	
83	6679,63389,18533	6694,58537	1 00223,83685	8,82475,26596,1550	8,82572,36844	49:48
	17,41421,10452	17,53172	1,17258	113,07587,3958	113,58398	
84	6697,04810,28985	6712,11709	1 00225,00943	8,82588,34183,5508	8,82685,95242	50:24
	17,41400,70414	17,53213	1,17566	112,78090,6789	113,29034	
85	6714,46210,99399	6729,64922	1 00226,18509	8,82701,12274,2297	8,82799,24276	51: 0
	17,41380,25072	17,53254	1,17875	112,48746,7639	112,99823	
86	6731,87591,24471	6747,18176	1 00227,36384	8,82813,61020,9936	8,82912,24099	51:36
	17,41359,74426	17,53296	1,18182	112,19554,4651	112,70763	
87	6749,28950,98897	6764,71472	1 00228,54566	8,82925,80575,4587	8,83024,94862	52:12
	17,41339,18474	17,53337	1,18490	111,90512,6083	112,41855	
88	6766,70290,17371	6782,24809	1 00229,73056	8,83037,71088,0670	8,83137,36717	52:48
	17,41318,57218	17,53378	1,18799	111,61620,0320	112,13095	
89	6784,11608,74589	6799,78187	1 00230,91855	8,83149,32708,0990	8,83249,49812	53:24
	17,41297,90659	17,53420	1,19107	111,32875,5864	111,84484	
90	6801,52906,65248	6817,31607	1 00232,10962	8,83260,65583,6854	8,83361,34296	54: 0
	17,41277,18795	17,53462	1,19415	111,04278,1333	111,56019	
91	6818,94183,84043	6834,85069	1 00233,30377	8,83371,69861,8187	8,83472,90315	54:36
	17,41256,41626	17,53503	1,19723	110,75826,5465	111,27700	
92	6836,35440,25669	6852,38572	1 00234,50100	8,83482,45688,3652	8,83584,18015	55:12
	17,41235,59153	17,53546	1,20031	110,47519,7111	110,99526	
93	6853,76675,84822	6869,92118	1 00235,70131	8,83592,93208,0763	8,83695,17541	55:48
	17,41214,71377	17,53587	1,20339	110,19356,5235	110,71496	
94	6871,17890,56199	6887,45705	1 00236,90470	8,83703,12564,5998	8,83805,89037	56:24
	17,41193,78296	17,53630	1,20648	109,91335,8913	110,43609	
95	6888,59084,34495	6904,99335	1 00238,11118	8,83813,03900,4911	8,83916,32646	57: 0
	17,41172,79911	17,53672	1,20956	109,63456,7331	110,15862	
96	6906,00257,14406	6922,53007	1 00239,32074	8,83922,67357,2242	8,84026,48508	57:36
	17,41151,76222	17,53714	1,21264	109,35717,9785	109,88256	
97	6923,41408,90628	6940,06721	1 00240,53338	8,84032,03075,2027	8,84136,36764	58:12
	17,41130,67230	17,53757	1,21573	109,08118,5680	109,60790	
98	6940,82539,57858	6957,60478	1 00241,74911	8,84141,11193,7707	8,84245,97554	58:48
	17,41109,52934	17,53799	1,21881	108,80657,4524	109,33462	
99	6958,23649,10792	6975,14277	1 00242,96792	8,84249,91851,2231	8,84355,31016	59:24
	17,41088,33333	17,53842	1,22189	108,53333,5932	109,06270	
100	6975,64737,44125	6992,68119	1 00244,18981	8,84358,45184,8163	8,84464,37286	60: 0
	17,41067,08430	17,53885	1,22497	108,26145,9624	108,79216	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99794,92705,16110	15 59057,19858	15 62260,97322	9,99910,84650,3999	11,19286,20488	19:48
	1,11870,15826	4248,19457	4239,45895	48684,7039	118,50018	
32	99793,80835,00284	15 54809,00401	15 58021,51427	9,99910,35965,6960	11,19167,70470	19:12
	1,12174,14757	4225,20072	4216,46503	48817,5448	118,18038	
31	99792,68660,85527	15 50583,80329	15 53805,04924	9,99909,87148,1512	11,19049,52432	18:36
	1,12478,13348	4202,39328	4193,65756	48950,3887	117,86231	
30	99791,56182,72179	15 46381,41001	15 49611,39168	9,99909,38197,7625	11,18931,66201	18: 0
	1,12782,11596	4179,77029	4171,03452	49083,2356	117,54596	
29	99790,43400,60583	15 42201,63972	15 45440,35716	9,99908,89114,5269	11,18814,11605	17:24
	1,13086,09501	4157,32974	4148,59391	49216,0855	117,23131	
28	99789,30314,51082	15 38044,30998	15 41291,76325	9,99908,39898,4414	11,18696,88474	16:48
	1,13390,07060	4135,06968	4126,33380	49348,9384	116,91837	
27	99788,16924,44022	15 33909,24030	15 37165,42945	9,99907,90549,5030	11,18579,96637	16:12
	1,13694,04275	4112,98816	4104,25225	49481,7944	116,60711	
26	99787,03230,39747	15 29796,25214	15 33061,17720	9,99907,41067,7086	11,18463,35926	15:36
	1,13998,01143	4091,08331	4082,34733	49614,6533	116,29751	
25	99785,89232,38604	15 25705,16883	15 28978,82987	9,99906,91453,0553	11,18347,06175	15: 0
	1,14301,97665	4069,35323	4060,61721	49747,5153	115,98956	
24	99784,74930,40939	15 21635,81560	15 24918,21266	9,99906,41705,5400	11,18231,07219	14:24
	1,14605,93837	4047,79606	4039,05999	49880,3803	115,68325	
23	99783,60324,47102	15 17588,01954	15 20879,15267	9,99905,91825,1597	11,18115,38894	13:48
	1,14909,89661	4026,40999	4017,67386	50013,2484	115,37858	
22	99782,45414,57441	15 13561,60955	15 16861,47881	9,99905,41811,9113	11,18000,01036	13:12
	1,15213,85134	4005,19320	3996,45702	50146,1196	115,07551	
21	99781,30200,72307	15 09556,41635	15 12865,02179	9,99904,91665,7917	11,17884,93485	12:36
	1,15517,80257	3984,14390	3975,40768	50278,9937	114,77406	
20	99780,14682,92050	15 05572,27245	15 08889,61411	9,99904,41386,7980	11,17770,16079	12: 0
	1,15821,75028	3963,26036	3954,52408	50411,8711	114,47418	
19	99778,98861,17022	15 01609,01209	15 04935,09003	9,99903,90974,9269	11,17655,68661	11:24
	1,16125,69446	3942,54082	3933,80449	50544,7514	114,17589	
18	99777,82735,47576	14 97666,47127	15 01001,28554	9,99903,40430,1755	11,17541,51072	10:48
	1,16429,63510	3921,98357	3913,24720	50677,6350	113,87916	
17	99776,66305,84066	14 93744,48770	14 97088,03834	9,99902,89752,5405	11,17427,63156	10:12
	1,16733,57219	3901,58692	3892,85050	50810,5214	113,58398	
16	99775,49572,26847	14 89842,90078	14 93195,18784	9,99902,38942,0191	11,17314,04758	9:36
	1,17037,50574	3881,34922	3872,61274	50943,4112	113,29034	
15	99774,32534,76273	14 85961,55156	14 89322,57510	9,99901,87998,6079	11,17200,75724	9: 0
	1,17341,43571	3861,26880	3852,53227	51076,3040	112,99823	
14	99773,15193,32702	14 82100,28276	14 85470,04283	9,99901,36922,3039	11,17087,75901	8:24
	1,17645,36211	3841,34405	3832,60746	51209,1999	112,70763	
13	99771,97547,96491	14 78258,93871	14 81637,43537	9,99900,85713,1040	11,16975,05138	7:48
	1,17949,28493	3821,57334	3812,83671	51342,0989	112,41855	
12	99770,79598,67998	14 74437,36537	14 77824,59866	9,99900,34371,0051	11,16862,63283	7:12
	1,18253,20415	3801,95512	3793,21844	51475,0012	112,13095	
11	99769,61345,47583	14 70635,41025	14 74031,38022	9,99899,82896,0039	11,16750,50188	6:36
	1,18557,11978	3782,48780	3773,75106	51607,9065	111,84484	
10	99768,42788,35605	14 66852,92245	14 70257,62916	9,99899,31288,0974	11,16638,65704	6: 0
	1,18861,03178	3763,16985	3754,43307	51740,8150	111,56019	
9	99767,23927,32427	14 63089,75260	14 66503,19609	9,99898,79547,2824	11,16527,09685	5:24
	1,19164,94017	3743,99975	3735,26290	51873,7267	111,27700	
8	99766,04762,38410	14 59345,75285	14 62767,93319	9,99898,27673,5557	11,16415,81985	4:48
	1,19468,84493	3724,97597	3716,23908	52006,6415	110,99526	
7	99764,85293,53917	14 55620,77688	14 59051,69411	9,99897,75666,9142	11,16304,82459	4:12
	1,19772,74606	3706,09705	3697,36011	52139,5596	110,71496	
6	99763,65520,79311	14 51914,67983	14 55354,33400	9,99897,23527,3546	11,16194,10963	3:36
	1,20076,64352	3687,36152	3678,62452	52272,4808	110,43609	
5	99762,45444,14959	14 48227,31831	14 51675,70948	9,99896,71254,8738	11,16083,67354	3: 0
	1,20380,53734	3668,76792	3660,03087	52405,4053	110,15862	
4	99761,25063,61225	14 44558,55039	14 48015,67861	9,99896,18849,4685	11,15973,51492	2:24
	1,20684,42748	3650,31482	3641,57772	52538,3328	109,88256	
3	99760,04379,18477	14 40908,23557	14 44374,10089	9,99895,66311,1357	11,15863,63236	1:48
	1,20988,31396	3632,00083	3623,26367	52671,2638	109,60790	
2	99758,83390,87081	14 37276,23474	14 40750,83722	9,99895,13639,8719	11,15754,02446	1:12
	1,21292,19674	3613,82452	3605,08731	52804,1978	109,33462	
1	99757,62098,67407	14 33662,41022	14 37145,74991	9,99894,60835,6741	11,15644,68984	0:36
	1,21596,07583	3595,78455	3587,04729	52937,1351	109,06270	
0	99756,40502,59824	14 30066,62567	14 33558,70262	9,99894,07898,5390	11,15535,62714	0: 0
	1,21899,95121	3577,87953	3569,14222	53070,0756	108,79216	

GRAD. 86.

4. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	6975,64737,44125 17,41067,08430	6992,68119 17,53885	1 00244,18981 1,22497	8,84358,45184,8163 108,26145,9624	8,84464,37286 108,79216	0: 0
1	6993,05804,52555 17,41045,78223	7010,22004 17,53928	1 00245,41478 1,22806	8,84466,71330,7787 107,99093,5419	8,84573,16502 108,52297	0:36
2	7010,46850,30778 17,41024,42711	7027,75932 17,53971	1 00246,64284 1,23114	8,84574,70424,3206 107,72175,3241	8,84681,68799 108,25511	1:12
3	7027,87874,73489 17,41003,01898	7045,29903 17,54014	1 00247,87398 1,23423	8,84682,42599,6447 107,45390,3111	8,84789,94310 107,98859	1:48
4	7045,28877,75387 17,40981,55780	7062,83917 17,54057	1 00249,10821 1,23731	8,84789,87989,9558 107,18737,5151	8,84897,93169 107,72340	2:24
5	7062,69859,31167 17,40960,04358	7080,37974 17,54101	1 00250,34552 1,24040	8,84897,06727,4709 106,92215,9576	8,85005,65509 107,45951	3: 0
6	7080,10819,35525 17,40938,47635	7097,92075 17,54144	1 00251,58592 1,24348	8,85003,98943,4285 106,65824,6705	8,85113,11460 107,19692	3:36
7	7097,51757,83160 17,40916,85607	7115,46219 17,54188	1 00252,82940 1,24656	8,85110,64768,0990 106,39562,6943	8,85220,31152 106,93563	4:12
8	7114,92674,68767 17,40895,18276	7133,00407 17,54231	1 00254,07596 1,24965	8,85217,04330,7933 106,13429,0798	8,85327,24715 106,67563	4:48
9	7132,33569,87043 17,40873,45643	7150,54638 17,54275	1 00255,32561 1,25274	8,85323,17759,8731 105,87422,8861	8,85433,92278 106,41690	5:24
10	7149,74443,32686 17,40851,67706	7168,08913 17,54319	1 00256,57835 1,25582	8,85429,05182,7592 105,61543,1825	8,85540,33968 106,15943	6: 0
11	7167,15295,00392 17,40829,84466	7185,63232 17,54363	1 00257,83417 1,25890	8,85534,66725,9417 105,35789,0465	8,85646,49911 105,90321	6:36
12	7184,56124,84858 17,40807,95924	7203,17595 17,54407	1 00259,09307 1,26199	8,85640,02514,9882 105,10159,5650	8,85752,40232 105,64826	7:12
13	7201,96932,80782 17,40786,02079	7220,72002 17,54451	1 00260,35506 1,26508	8,85745,12674,5532 104,84653,8336	8,85858,05058 105,39452	7:48
14	7219,37718,82861 17,40764,02930	7238,26453 17,54496	1 00261,62014 1,26817	8,85849,97328,3868 104,59270,9565	8,85963,44510 105,14203	8:24
15	7236,78482,85791 17,40741,98480	7255,80949 17,54540	1 00262,88831 1,27125	8,85954,56599,3433 104,34010,0469	8,86068,58713 104,89074	9: 0
16	7254,19224,84271 17,40719,88726	7273,35489 17,54585	1 00264,15956 1,27433	8,86058,90609,3902 104,08870,2262	8,86173,47787 104,64068	9:36
17	7271,59944,72997 17,40697,73671	7290,90074 17,54629	1 00265,43389 1,27743	8,86162,99479,6164 103,83850,6241	8,86278,11855 104,39181	10:12
18	7289,00642,46668 17,40675,53312	7308,44703 17,54674	1 00266,71132 1,28051	8,86266,83330,2405 103,58950,3790	8,86382,51036 104,14414	10:48
19	7306,41317,99980 17,40653,27652	7325,99377 17,54719	1 00267,99183 1,28359	8,86370,42280,6195 103,34168,6375	8,86486,65450 103,89765	11:24
20	7323,81971,27632 17,40630,96688	7343,54096 17,54764	1 00269,27542 1,28669	8,86473,76449,2570 103,09504,5537	8,86590,55215 103,65234	12: 0
21	7341,22602,24320 17,40608,60423	7361,08860 17,54809	1 00270,56211 1,28977	8,86576,85953,8107 102,84957,2906	8,86694,20449 103,40820	12:36
22	7358,63210,84743 17,40586,18856	7378,63669 17,54854	1 00271,85188 1,29286	8,86679,70911,1013 102,60526,0184	8,86797,61269 103,16522	13:12
23	7376,03797,03599 17,40563,71986	7396,18523 17,54900	1 00273,14474 1,29595	8,86782,31437,1197 102,36209,9156	8,86900,77791 102,92338	13:48
24	7393,44360,75585 17,40541,19814	7413,73423 17,54944	1 00274,44069 1,29903	8,86884,67647,0353 102,12008,1683	8,87003,70129 102,68270	14:24
25	7410,84901,95399 17,40518,62341	7431,28367 17,54991	1 00275,73972 1,30213	8,86986,79655,2036 101,87919,9701	8,87106,38399 102,44315	15: 0
26	7428,25420,57740 17,40495,99565	7448,83358 17,55036	1 00277,04185 1,30521	8,87088,67575,1737 101,63944,5224	8,87208,82714 102,20472	15:36
27	7445,65916,57305 17,40473,31487	7466,38394 17,55082	1 00278,34706 1,30830	8,87190,31519,6961 101,40081,0340	8,87311,03186 101,96742	16:12
28	7463,06389,88792 17,40450,58108	7483,93476 17,55127	1 00279,65536 1,31139	8,87291,71600,7301 101,16328,7208	8,87412,99928 101,73122	16:48
29	7480,46840,46900 17,40427,79428	7501,48603 17,55174	1 00280,96675 1,31448	8,87392,87929,4509 100,92686,8065	8,87514,73050 101,49614	17:24
30	7497,87268,26328 17,40404,95444	7519,03777 17,55220	1 00282,28123 1,31757	8,87493,80616,2574 100,69154,5218	8,87616,22664 101,26214	18: 0
31	7515,27673,21772 17,40382,06161	7536,58997 17,55266	1 00283,59880 1,32066	8,87594,49770,7792 100,45731,1043	8,87717,48878 101,02924	18:36
32	7532,68055,27933 17,40359,11574	7554,14263 17,55312	1 00284,91946 1,32375	8,87694,95501,8835 100,22415,7989	8,87818,51802 100,79742	19:12
33	7550,08414,39507 17,40336,11688	7571,69575 17,55358	1 00286,24321 1,32683	8,87795,17917,6824 99,99207,8576	8,87919,31544 100,56667	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99756,40502,59824 1,21899,95121	14 30066,62567 3577,87953	14 33558,70262 3569,14222	9,99894,07898,5390 53070,0756	11,15535,62714 108,79216	60: 0
99	99755,18602,64703 1,22203,82289	14 26488,74614 3560,10814	14 29989,56040 3551,37077	9,99893,54828,4634 53203,0195	11,15426,83498 108,52297	59:24
98	99753,96398,82414 1,22507,69084	14 22928,63800 3542,46904	14 26438,18963 3533,73161	9,99893,01625,4439 53335,9665	11,15318,31201 108,25511	58:48
97	99752,73891,13330 1,22811,55506	14 19386,16896 3524,96092	14 22904,45802 3516,22345	9,99892,48289,4774 53468,9168	11,15210,05690 107,98859	58:12
96	99751,51079,57824 1,23115,41554	14 15861,20804 3507,58249	14 19388,23457 3498,84496	9,99891,94820,5606 53601,8705	11,15102,06831 107,72340	57:36
95	99750,27964,16270 1,23419,27226	14 12353,62555 3490,33248	14 15889,38961 3481,59489	9,99891,41218,6901 53734,8273	11,14994,34491 107,45951	57: 0
94	99749,04544,89044 1,23723,12523	14 08863,29307 3473,20961	14 12407,79472 3464,47198	9,99890,87483,8628 53867,7874	11,14886,88540 107,19692	56:24
93	99747,80821,76521 1,24026,97443	14 05390,08346 3456,21265	14 08943,32274 3447,47496	9,99890,33616,0754 54000,7510	11,14779,68848 106,93563	55:48
92	99746,56794,79078 1,24330,81986	14 01933,87081 3439,34036	14 05495,84778 3430,60262	9,99889,79615,3244 54133,7177	11,14672,75285 106,67563	55:12
91	99745,32463,97092 1,24634,66148	13 98494,53045 3422,59153	14 02065,24516 3413,85372	9,99889,25481,6067 54266,6878	11,14566,07722 106,41690	54:36
90	99744,07829,30944 1,24938,49932	13 95071,93892 3405,96495	13 98651,39144 3397,22710	9,99888,71214,9189 54399,6612	11,14459,66032 106,15943	54: 0
89	99742,82890,81012 1,25242,33335	13 91665,97397 3389,45944	13 95254,16434 3380,72153	9,99888,16815,2577 54532,6379	11,14353,50089 105,90321	53:24
88	99741,57648,47677 1,25546,16357	13 88276,51453 3373,07382	13 91873,44281 3364,33586	9,99887,62282,6198 54665,6181	11,14247,59768 105,64826	52:48
87	99740,32102,31320 1,25849,98996	13 84903,44071 3356,80695	13 88509,10695 3348,06893	9,99887,07617,0017 54798,6014	11,14141,94942 105,39452	52:12
86	99739,06252,32324 1,26153,81252	13 81546,63376 3340,65766	13 85161,03802 3331,91958	9,99886,52818,4003 54931,5882	11,14036,55490 105,14203	51:36
85	99737,80098,51072 1,26457,63124	13 78205,97610 3324,62483	13 81829,11844 3315,88671	9,99885,97886,8121 55064,5784	11,13931,41287 104,89074	51: 0
84	99736,53640,87948 1,26761,44609	13 74881,35127 3308,70735	13 78513,23173 3299,96916	9,99885,42822,2337 55197,5719	11,13826,52213 104,64068	50:24
83	99735,26879,43339 1,27065,25710	13 71572,64392 3292,90412	13 75213,26257 3284,16587	9,99884,87624,6618 55330,5689	11,13721,88145 104,39181	49:48
82	99733,99814,17629 1,27369,06423	13 68279,73980 3277,21402	13 71929,09670 3268,47573	9,99884,32294,0929 55463,5691	11,13617,48964 104,14414	49:12
81	99732,72445,11206 1,27672,86748	13 65002,52578 3261,63600	13 68660,62097 3252,89765	9,99883,76830,5238 55596,5728	11,13513,34550 103,89765	48:36
80	99731,44772,24458 1,27976,66684	13 61740,88978 3246,16899	13 65407,72332 3237,43059	9,99883,21233,9510 55729,5798	11,13409,44785 103,65234	48: 0
79	99730,16795,57774 1,28280,46231	13 58494,72079 3230,81194	13 62170,29273 3222,07347	9,99882,65504,3712 55862,5904	11,13305,79551 103,40820	47:24
78	99728,88515,11543 1,28584,25386	13 55263,90885 3215,56380	13 58948,21926 3206,82528	9,99882,09641,7808 55995,6043	11,13202,38731 103,16522	46:48
77	99727,59930,86157 1,28888,04150	13 52048,34505 3200,42354	13 55741,39398 3191,68497	9,99881,53646,1765 56128,6217	11,13099,22209 102,92338	46:12
76	99726,31042,82007 1,29191,82521	13 48847,92151 3185,39017	13 52549,70901 3176,65153	9,99880,97517,5548 56261,6425	11,12996,29871 102,68270	45:36
75	99725,01850,99486 1,29495,60499	13 45662,53134 3170,46266	13 49373,05748 3161,72397	9,99880,41255,9123 56394,6667	11,12893,61601 102,44315	45: 0
74	99723,72355,38987 1,29799,38083	13 42492,06868 3155,64003	13 46211,33351 3146,90128	9,99879,84861,2456 56527,6944	11,12791,17286 102,20472	44:24
73	99722,42556,00904 1,30103,15270	13 39336,42865 3140,92129	13 43064,43223 3132,18249	9,99879,28333,5512 56660,7256	11,12688,96814 101,96742	43:48
72	99721,12452,85634 1,30406,92062	13 36195,50736 3126,30548	13 39932,24974 3117,56662	9,99878,71672,8256 56793,7602	11,12587,00072 101,73122	43:12
71	99719,82045,93572 1,30710,68456	13 33069,20188 3111,79165	13 36814,68312 3103,05273	9,99878,14879,0654 56926,7983	11,12485,26950 101,49614	42:36
70	99718,51335,25116 1,31014,44453	13 29957,41023 3097,37883	13 33711,63039 3088,63986	9,99877,57952,2671 57059,8400	11,12383,77336 101,26214	42: 0
69	99717,20320,80663 1,31318,20049	13 26860,03140 3083,06612	13 30622,99053 3074,32709	9,99877,00892,4271 57192,8850	11,12282,51122 101,02924	41:24
68	99715,89002,60614 1,31621,95247	13 23776,96528 3068,85256	13 27548,66344 3060,11347	9,99876,43699,5421 57325,9336	11,12181,48198 100,79742	40:48
67	99714,57380,65367 1,31925,70042	13 20708,11272 3054,73725	13 24488,54997 3045,99810	9,99875,86373,6085 57458,9857	11,12080,68456 100,56667	40:12

GRAD. 85.

4. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	7550,08414,39507 17,40336,11688	7571,69575 17,55358	1 00286,24321 1,32683	8,87795,17917,6824 99,99207,8576	8,87919,31544 100,56667	19:48
34	7567,48750,51195 17,40313,06499	7589,24933 17,55405	1 00287,57004 1,32993	8,87895,17125,5400 99,76106,5388	8,88019,88211 100,33698	20:24
35	7584,89063,57694 17,40289,96009	7606,80338 17,55452	1 00288,89997 1,33302	8,87994,93232,0788 99,53111,1083	8,88120,21909 100,10837	21: 0
36	7602,29353,53703 17,40266,80218	7624,35790 17,55498	1 00290,23299 1,33611	8,88094,46343,1871 99,30220,8381	8,88220,32746 99,88079	21:36
37	7619,69620,33921 17,40243,59126	7641,91288 17,55546	1 00291,56910 1,33920	8,88193,76564,0252 99,07435,0073	8,88320,20825 99,65426	22:12
38	7637,09863,93047 17,40220,32733	7659,46834 17,55592	1 00292,90830 1,34229	8,88292,83999,0325 98,84752,9013	8,88419,86251 99,42877	22:48
39	7654,50084,25780 17,40197,01039	7677,02426 17,55639	1 00294,25059 1,34538	8,88391,68751,9338 98,62173,8120	8,88519,29128 99,20431	23:24
40	7671,90281,26819 17,40173,64043	7694,58065 17,55686	1 00295,59597 1,34847	8,88490,30925,7458 98,39697,0379	8,88618,49559 98,98088	24: 0
41	7689,30454,90862 17,40150,21747	7712,13751 17,55734	1 00296,94444 1,35157	8,88588,70622,7837 98,17321,8838	8,88717,47647 98,75845	24:36
42	7706,70605,12609 17,40126,74150	7729,69485 17,55781	1 00298,29601 1,35466	8,88686,87944,6675 97,95047,6606	8,88816,23492 98,53705	25:12
43	7724,10731,86759 17,40103,21253	7747,25266 17,55828	1 00299,65067 1,35774	8,88784,82992,3281 97,72873,6856	8,88914,77197 98,31663	25:48
44	7741,50835,08012 17,40079,63054	7764,81094 17,55876	1 00301,00841 1,36085	8,88882,55866,0137 97,50799,2823	8,89013,08860 98,09722	26:24
45	7758,90914,71066 17,40055,99555	7782,36970 17,55924	1 00302,36926 1,36393	8,88980,06665,2960 97,28823,7802	8,89111,18582 97,87880	27: 0
46	7776,30970,70621 17,40032,30756	7799,92894 17,55972	1 00303,73319 1,36702	8,89077,35489,0762 97,06946,5147	8,89209,06462 97,66135	27:36
47	7793,71003,01377 17,40008,56657	7817,48866 17,56019	1 00305,10021 1,37012	8,89174,42435,5909 96,85166,8271	8,89306,72597 97,44489	28:12
48	7811,11011,58034 17,39984,77255	7835,04885 17,56068	1 00306,47033 1,37321	8,89271,27602,4180 96,63484,0651	8,89404,17086 97,22939	28:48
49	7828,50996,35289 17,39960,92556	7852,60953 17,56115	1 00307,84354 1,37631	8,89367,91086,4831 96,41897,5813	8,89501,40025 97,01486	29:24
50	7845,90957,27845 17,39937,02555	7870,17068 17,56164	1 00309,21985 1,37940	8,89464,32984,0644 96,20406,7349	8,89598,41511 96,80128	30: 0
51	7863,30894,30400 17,39913,07254	7887,73232 17,56212	1 00310,59925 1,38249	8,89560,53390,7993 95,99010,8904	8,89695,21639 96,58866	30:36
52	7880,70807,37654 17,39889,06652	7905,29444 17,56261	1 00311,98174 1,38558	8,89656,52401,6897 95,77709,4179	8,89791,80505 96,37697	31:12
53	7898,10696,44306 17,39865,00752	7922,85705 17,56309	1 00313,36732 1,38868	8,89752,30111,1076 95,56501,6930	8,89888,18202 96,16622	31:48
54	7915,50561,45058 17,39840,89551	7940,42014 17,56358	1 00314,75600 1,39178	8,89847,86612,8006 95,35387,0970	8,89984,34824 95,95641	32:24
55	7932,90402,34609 17,39816,73051	7957,98372 17,56407	1 00316,14778 1,39487	8,89943,21999,8976 95,14365,0167	8,90080,30465 95,74752	33: 0
56	7950,30219,07660 17,39792,51250	7975,54779 17,56456	1 00317,54265 1,39796	8,90038,36364,9143 94,93434,8437	8,90176,05217 95,53955	33:36
57	7967,70011,58910 17,39768,24149	7993,11235 17,56504	1 00318,94061 1,40106	8,90133,29799,7580 94,72595,9757	8,90271,59172 95,33250	34:12
58	7985,09779,83059 17,39743,91750	8010,67739 17,56554	1 00320,34167 1,40415	8,90228,02395,7337 94,51847,8152	8,90366,92422 95,12634	34:48
59	8002,49523,74809 17,39719,54050	8028,24293 17,56603	1 00321,74582 1,40725	8,90322,54243,5489 94,31189,7698	8,90462,05056 94,92109	35:24
60	8019,89243,28859 17,39695,11051	8045,80896 17,56652	1 00323,15307 1,41034	8,90416,85433,3187 94,10621,2527	8,90556,97165 94,71674	36: 0
61	8037,28938,39910 17,39670,62753	8063,37548 17,56702	1 00324,56341 1,41344	8,90510,96054,5714 93,90141,6816	8,90651,68839 94,51328	36:36
62	8054,68609,02663 17,39646,09155	8080,94250 17,56752	1 00325,97685 1,41654	8,90604,86196,2530 93,69750,4798	8,90746,20167 94,31069	37:12
63	8072,08255,11818 17,39621,50259	8098,51002 17,56801	1 00327,39339 1,41963	8,90698,55946,7328 93,49447,0753	8,90840,51236 94,10900	37:48
64	8089,47876,62077 17,39596,86062	8116,07803 17,56850	1 00328,81302 1,42273	8,90792,05393,8081 93,29230,9010	8,90934,62136 93,90816	38:24
65	8106,87473,48139 17,39572,16567	8133,64653 17,56901	1 00330,23575 1,42583	8,90885,34624,7091 93,09101,3946	8,91028,52952 93,70820	39: 0
66	8124,27045,64706 17,39547,41772	8151,21554 17,56951	1 00331,66158 1,42892	8,90978,43726,1037 92,89057,9991	8,91122,23772 93,50910	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99714,57380,65367 1,31925,70042	13 20708,11272 3054,73725	13 24488,54997 3045,99810	9,99875,86373,6085 57458,9857	11,12080,68456 100,56667	40:12
66	99713,25454,95325 1,32229,44437	13 17653,37547 3040,71929	13 21442,55187 3031,98009	9,99875,28914,6228 57592,0414	11,11980,11789 100,33698	39:36
65	99711,93225,50888 1,32533,18428	13 14612,65618 3026,79779	13 18410,57178 3018,05852	9,99874,71322,5814 57725,1005	11,11879,78091 100,10837	39: 0
64	99710,60692,32460 1,32836,92016	13 11585,85839 3012,97185	13 15392,51326 3004,23254	9,99874,13597,4809 57858,1632	11,11779,67254 99,88079	38:24
63	99709,27855,40444 1,33140,65199	13 08572,88654 2999,24062	13 12388,28072 2990,50124	9,99873,55739,3177 57991,2295	11,11679,79175 99,65426	37:48
62	99707,94714,75245 1,33444,37977	13 05573,64592 2985,60322	13 09397,77948 2976,86378	9,99872,97748,0882 58124,2993	11,11580,13749 99,42877	37:12
61	99706,61270,37268 1,33748,10348	13 02588,04270 2972,05880	13 06420,91570 2963,31930	9,99872,39623,7889 58257,3726	11,11480,70872 99,20431	36:36
60	99705,27522,26920 1,34051,82311	12 99615,98390 2958,60653	13 03457,59640 2949,86697	9,99871,81366,4163 58390,4495	11,11381,50441 98,98088	36: 0
59	99703,93470,44609 1,34355,53867	12 96657,37737 2945,24555	13 00507,72943 2936,50594	9,99871,22975,9668 58523,5301	11,11282,52353 98,75845	35:24
58	99702,59114,90742 1,34659,25012	12 93712,13182 2931,97506	12 97571,22349 2923,23539	9,99870,64452,4367 58656,6142	11,11183,76508 98,53705	34:48
57	99701,24455,65730 1,34962,95748	12 90780,15676 2918,79423	12 94647,98810 2910,05450	9,99870,05795,8225 58789,7018	11,11085,22803 98,31663	34:12
56	99699,89492,69982 1,35266,66073	12 87861,36253 2905,70227	12 91737,93360 2896,96248	9,99869,47006,1207 58922,7932	11,10986,91140 98,09722	33:36
55	99698,54226,03909 1,35570,35986	12 84955,66026 2892,69836	12 88840,97112 2883,95851	9,99868,88083,3275 59055,8880	11,10888,81418 97,87880	33: 0
54	99697,18655,67923 1,35874,05485	12 82062,96190 2879,78174	12 85957,01261 2871,04183	9,99868,29027,4395 59188,9866	11,10790,93538 97,66135	32:24
53	99695,82781,62438 1,36177,74571	12 79183,18016 2866,95160	12 83085,97078 2858,21163	9,99867,69838,4529 59322,0887	11,10693,27403 97,44489	31:48
52	99694,46603,87867 1,36481,43242	12 76316,22856 2854,20719	12 80227,75915 2845,46717	9,99867,10516,3642 59455,1946	11,10595,82914 97,22939	31:12
51	99693,10122,44625 1,36785,11497	12 73462,02137 2841,54775	12 77382,29198 2832,80766	9,99866,51061,1696 59588,3039	11,10498,59975 97,01486	30:36
50	99691,73337,33128 1,37088,79336	12 70620,47362 2828,97252	12 74549,48432 2820,23237	9,99865,91472,8657 59721,4170	11,10401,58489 96,80128	30: 0
49	99690,36248,53792 1,37392,46756	12 67791,50110 2816,48074	12 71729,25195 2807,74053	9,99865,31751,4487 59854,5338	11,10304,78361 96,58866	29:24
48	99688,98856,07036 1,37696,13759	12 64975,02036 2804,07170	12 68921,51142 2795,33143	9,99864,71896,9149 59987,6542	11,10208,19495 96,37697	28:48
47	99687,61159,93277 1,37999,80342	12 62170,94866 2791,74465	12 66126,17999 2783,00433	9,99864,11909,2607 60120,7783	11,10111,81798 96,16622	28:12
46	99686,23160,12935 1,38303,46504	12 59379,20401 2779,49889	12 63343,17566 2770,75849	9,99863,51788,4824 60253,9061	11,10015,65176 95,95641	27:36
45	99684,84856,66431 1,38607,12246	12 56599,70512 2767,33368	12 60572,41717 2758,59324	9,99862,91534,5763 60387,0376	11,09919,69535 95,74752	27: 0
44	99683,46249,54185 1,38910,77565	12 53832,37144 2755,24833	12 57813,82393 2746,50782	9,99862,31147,5387 60520,1727	11,09823,94783 95,53955	26:24
43	99682,07338,76620 1,39214,42461	12 51077,12311 2743,24216	12 55067,31611 2734,50159	9,99861,70627,3660 60653,3116	11,09728,40828 95,33250	25:48
42	99680,68124,34159 1,39518,06932	12 48333,88095 2731,31444	12 52332,81452 2722,57381	9,99861,09974,0544 60786,4543	11,09633,07578 95,12634	25:12
41	99679,28606,27227 1,39821,70980	12 45602,56651 2719,46453	12 49610,24071 2710,72383	9,99860,49187,6001 60919,6005	11,09537,94944 94,92109	24:36
40	99677,88784,56247 1,40125,34600	12 42883,10198 2707,69171	12 46899,51688 2698,95096	9,99859,88267,9996 61052,7506	11,09443,02835 94,71674	24: 0
39	99676,48659,21647 1,40428,97795	12 40175,41027 2695,99536	12 44200,56592 2687,25455	9,99859,27215,2490 61185,9045	11,09348,31161 94,51328	23:24
38	99675,08230,23852 1,40732,60560	12 37479,41491 2684,37479	12 41513,31137 2675,63391	9,99858,66029,3445 61319,0620	11,09253,79833 94,31069	22:48
37	99673,67497,63292 1,41036,22899	12 34795,04012 2672,82935	12 38837,67746 2664,08841	9,99858,04710,2825 61452,2233	11,09159,48764 94,10900	22:12
36	99672,26461,40393 1,41339,84806	12 32122,21077 2661,35840	12 36173,58905 2652,61739	9,99857,43258,0592 61585,3884	11,09065,37864 93,90816	21:36
35	99670,85121,55587 1,41643,46284	12 29460,85237 2649,96129	12 33520,97166 2641,22023	9,99856,81672,6708 61718,5573	11,08971,47048 93,70820	21: 0
34	99669,43478,09303 1,41947,07330	12 26810,89108 2638,63740	12 30879,75143 2629,89628	9,99856,19954,1135 61851,7300	11,08877,76228 93,50910	20:24

GRAD. 85.

4. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	8141,66593,06478	8168,78505	1 00333,09050	8,91071,32784,1028	8,91215,74682	40:12
	17,39522,61680	17,57000	1,43202	92,69100,1614	93,31085	
68	8159,06115,68158	8186,35505	1 00334,52252	8,91164,01884,2642	8,91309,05767	40:48
	17,39497,76287	17,57051	1,43512	92,49227,3342	93,11345	
69	8176,45613,44445	8203,92556	1 00335,95764	8,91256,51111,5984	8,91402,17112	41:24
	17,39472,85596	17,57102	1,43821	92,29438,9739	92,91690	
70	8193,85086,30041	8221,49658	1 00337,39585	8,91348,80550,5723	8,91495,08802	42: 0
	17,39447,89606	17,57151	1,44131	92,09734,5420	92,72119	
71	8211,24534,19647	8239,06809	1 00338,83716	8,91440,90285,1143	8,91587,80921	42:36
	17,39422,88319	17,57202	1,44441	91,90113,5046	92,52632	
72	8228,63957,07966	8256,64011	1 00340,28157	8,91532,80398,6189	8,91680,33553	43:12
	17,39397,81731	17,57253	1,44751	91,70575,3321	92,33226	
73	8246,03354,89697	8274,21264	1 00341,72908	8,91624,50973,9510	8,91772,66779	43:48
	17,39372,69845	17,57304	1,45061	91,51119,4995	92,13903	
74	8263,42727,59542	8291,78568	1 00343,17969	8,91716,02093,4505	8,91864,80682	44:24
	17,39347,52662	17,57354	1,45370	91,31745,4863	91,94663	
75	8280,82075,12204	8309,35922	1 00344,63339	8,91807,33838,9368	8,91956,75345	45: 0
	17,39322,30180	17,57406	1,45681	91,12452,7762	91,75503	
76	8298,21397,42384	8326,93328	1 00346,09020	8,91898,46291,7130	8,92048,50848	45:36
	17,39297,02399	17,57456	1,45990	90,93240,8573	91,56425	
77	8315,60694,44783	8344,50784	1 00347,55010	8,91989,39532,5703	8,92140,07273	46:12
	17,39271,69320	17,57508	1,46300	90,74109,2220	91,37426	
78	8332,99966,14103	8362,08292	1 00349,01310	8,92080,13641,7923	8,92231,44699	46:48
	17,39246,30944	17,57559	1,46611	90,55057,3671	91,18507	
79	8350,39212,45047	8379,65851	1 00350,47921	8,92170,68699,1594	8,92322,63206	47:24
	17,39220,87268	17,57611	1,46920	90,36084,7934	90,99669	
80	8367,78433,32315	8397,23462	1 00351,94841	8,92261,04783,9528	8,92413,62875	48: 0
	17,39195,38296	17,57662	1,47230	90,17191,0056	90,80907	
81	8385,17628,70611	8414,81124	1 00353,42071	8,92351,21974,9584	8,92504,43782	48:36
	17,39169,84025	17,57713	1,47540	89,98375,5133	90,62225	
82	8402,56798,54636	8432,38837	1 00354,89611	8,92441,20350,4717	8,92595,06007	49:12
	17,39144,24457	17,57766	1,47850	89,79637,8293	90,43621	
83	8419,95942,79093	8449,96603	1 00356,37461	8,92530,99988,3010	8,92685,49628	49:48
	17,39118,59590	17,57817	1,48161	89,60977,4711	90,25094	
84	8437,35061,38683	8467,54420	1 00357,85622	8,92620,60965,7721	8,92775,74722	50:24
	17,39092,89426	17,57869	1,48470	89,42393,9597	90,06643	
85	8454,74154,28109	8485,12289	1 00359,34092	8,92710,03359,7318	8,92865,81365	51: 0
	17,39067,13964	17,57921	1,48781	89,23886,8204	89,88270	
86	8472,13221,42073	8502,70210	1 00360,82873	8,92799,27246,5522	8,92955,69635	51:36
	17,39041,33206	17,57973	1,49091	89,05455,5820	89,69972	
87	8489,52262,75279	8520,28183	1 00362,31964	8,92888,32702,1342	8,93045,39607	52:12
	17,39015,47149	17,58026	1,49400	88,87099,7777	89,51749	
88	8506,91278,22428	8537,86209	1 00363,81364	8,92977,19801,9119	8,93134,91356	52:48
	17,38989,55795	17,58078	1,49711	88,68818,9441	89,33601	
89	8524,30267,78223	8555,44287	1 00365,31075	8,93065,88620,8560	8,93224,24957	53:24
	17,38963,59144	17,58131	1,50022	88,50612,6217	89,15528	
90	8541,69231,37367	8573,02418	1 00366,81097	8,93154,39233,4777	8,93313,40485	54: 0
	17,38937,57196	17,58183	1,50331	88,32480,3549	88,97530	
91	8559,08168,94563	8590,60601	1 00368,31428	8,93242,71713,8326	8,93402,38015	54:36
	17,38911,49951	17,58236	1,50642	88,14421,6915	88,79604	
92	8576,47080,44514	8608,18837	1 00369,82070	8,93330,86135,5241	8,93491,17619	55:12
	17,38885,37408	17,58289	1,50952	87,96436,1833	88,61752	
93	8593,85965,81922	8625,77126	1 00371,33022	8,93418,82571,7074	8,93579,79371	55:48
	17,38859,19569	17,58341	1,51262	87,78523,3855	88,43972	
94	8611,24825,01491	8643,35467	1 00372,84284	8,93506,61095,0929	8,93668,23343	56:24
	17,38832,96432	17,58395	1,51573	87,60682,8570	88,26265	
95	8628,63657,97923	8660,93862	1 00374,35857	8,93594,21777,9499	8,93756,49608	57: 0
	17,38806,68000	17,58448	1,51883	87,42914,1603	88,08629	
96	8646,02464,65923	8678,52310	1 00375,87740	8,93681,64692,1102	8,93844,58237	57:36
	17,38780,34270	17,58501	1,52193	87,25216,8613	87,91066	
97	8663,41245,00193	8696,10811	1 00377,39933	8,93768,89908,9715	8,93932,49303	58:12
	17,38753,95243	17,58555	1,52504	87,07590,5295	87,73572	
98	8680,79998,95436	8713,69366	1 00378,92437	8,93855,97499,5010	8,94020,22875	58:48
	17,38727,50921	17,58608	1,52814	86,90034,7378	87,56150	
99	8698,18726,46357	8731,27974	1 00380,45251	8,93942,87534,2388	8,94107,79025	59:24
	17,38701,01301	17,58661	1,53124	86,72549,0624	87,38798	
100	8715,57427,47658	8748,86635	1 00381,98375	8,94029,60083,3012	8,94195,17823	60: 0
	17,38674,46386	17,58716	1,53435	86,55133,0833	87,21515	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99668,01531,01973	12 24172,25368	12 28249,85515	9,99855,58102,3835	11,08784,25318	19:48
	1,42250,67943	2627,38610	2618,64492	61984,9064	93,31085	
32	99666,59280,34030	12 21544,86758	12 25631,21023	9,99854,96117,4771	11,08690,94233	19:12
	1,42554,28124	2616,20678	2607,46552	62118,0866	93,11345	
31	99665,16726,05906	12 18928,66080	12 23023,74471	9,99854,33999,3905	11,08597,82888	18:36
	1,42857,87869	2605,09880	2596,35749	62251,2707	92,91690	
30	99663,73868,18037	12 16323,56200	12 20427,38722	9,99853,71748,1198	11,08504,91198	18: 0
	1,43161,47181	2594,06158	2585,32021	62384,4586	92,72119	
29	99662,30706,70856	12 13729,50042	12 17842,06701	9,99853,09363,6612	11,08412,19079	17:24
	1,43465,06055	2583,09452	2574,35307	62517,6503	92,52632	
28	99660,87241,64801	12 11146,40590	12 15267,71394	9,99852,46846,0109	11,08319,66447	16:48
	1,43768,64493	2572,19700	2563,45551	62650,8458	92,33226	
27	99659,43473,00308	12 08574,20890	12 12704,25843	9,99851,84195,1651	11,08227,33221	16:12
	1,44072,22493	2561,36847	2552,62690	62784,0452	92,13903	
26	99657,99400,77815	12 06012,84043	12 10151,63153	9,99851,21411,1199	11,08135,19318	15:36
	1,44375,80054	2550,60832	2541,86670	62917,2485	91,94663	
25	99656,55024,97761	12 03462,23211	12 07609,76483	9,99850,58493,8714	11,08043,24655	15: 0
	1,44679,37174	2539,91599	2531,17430	63050,4555	91,75503	
24	99655,10345,60587	12 00922,31612	12 05078,59053	9,99849,95443,4159	11,07951,49152	14:24
	1,44982,93856	2529,29091	2520,54915	63183,6665	91,56425	
23	99653,65362,66731	11 98393,02521	12 02558,04138	9,99849,32259,7494	11,07859,92727	13:48
	1,45286,50094	2518,73251	2509,99070	63316,8813	91,37426	
22	99652,20076,16637	11 95874,29270	12 00048,05068	9,99848,68942,8681	11,07768,55301	13:12
	1,45590,05890	2508,24024	2499,49836	63450,1001	91,18507	
21	99650,74486,10747	11 93366,05246	11 97548,55232	9,99848,05492,7680	11,07677,36794	12:36
	1,45893,61243	2497,81355	2489,07161	63583,3226	90,99669	
20	99649,28592,49504	11 90868,23891	11 95059,48071	9,99847,41909,4454	11,07586,37125	12: 0
	1,46197,16151	2487,45189	2478,70988	63716,5492	90,80907	
19	99647,82395,33353	11 88380,78702	11 92580,77083	9,99846,78192,8962	11,07495,56218	11:24
	1,46500,70614	2477,15472	2468,41264	63849,7796	90,62225	
18	99646,35894,62739	11 85903,63230	11 90112,35819	9,99846,14343,1166	11,07404,93993	10:48
	1,46804,24631	2466,92151	2458,17938	63983,0140	90,43621	
17	99644,89090,38108	11 83436,71079	11 87654,17881	9,99845,50360,1026	11,07314,50372	10:12
	1,47107,78200	2456,75172	2448,00952	64116,2522	90,25094	
16	99643,41982,59908	11 80979,95907	11 85206,16929	9,99844,86243,8504	11,07224,25278	9:36
	1,47411,31322	2446,64485	2437,90259	64249,4944	90,06643	
15	99641,94571,28586	11 78533,31422	11 82768,26670	9,99844,21994,3560	11,07134,18635	9: 0
	1,47714,83994	2436,60037	2427,85803	64382,7406	89,88270	
14	99640,46856,44592	11 76096,71385	11 80340,40867	9,99843,57611,6154	11,07044,30365	8:24
	1,48018,36216	2426,61775	2417,87536	64515,9906	89,69972	
13	99638,98838,08376	11 73670,09610	11 77922,53331	9,99842,93095,6248	11,06954,60393	7:48
	1,48321,87988	2416,69651	2407,95405	64649,2447	89,51749	
12	99637,50516,20388	11 71253,39959	11 75514,57926	9,99842,28446,3801	11,06865,08644	7:12
	1,48625,39307	2406,83614	2398,09361	64782,5027	89,33601	
11	99636,01890,81081	11 68846,56345	11 73116,48565	9,99841,63663,8774	11,06775,75043	6:36
	1,48928,90175	2397,03613	2388,29354	64915,7648	89,15528	
10	99634,52961,90906	11 66449,52732	11 70728,19211	9,99840,98748,1126	11,06686,59515	6: 0
	1,49232,40587	2387,29600	2378,55335	65049,0307	88,97530	
9	99633,03729,50319	11 64062,23132	11 68349,63876	9,99840,33699,0819	11,06597,61985	5:24
	1,49535,90547	2377,61526	2368,87254	65182,3007	88,79604	
8	99631,54193,59772	11 61684,61606	11 65980,76622	9,99839,68516,7812	11,06508,82381	4:48
	1,49839,40049	2367,99344	2359,25066	65315,5746	88,61752	
7	99630,04354,19723	11 59316,62262	11 63621,51556	9,99839,03201,2066	11,06420,20629	4:12
	1,50142,89096	2358,43005	2349,68719	65448,8526	88,43972	
6	99628,54211,30627	11 56958,19257	11 61271,82837	9,99838,37752,3540	11,06331,76657	3:36
	1,50446,37686	2348,92461	2340,18169	65582,1347	88,26265	
5	99627,03764,92941	11 54609,26796	11 58931,64668	9,99837,72170,2193	11,06243,50392	3: 0
	1,50749,85816	2339,47666	2330,73369	65715,4206	88,08629	
4	99625,53015,07125	11 52269,79130	11 56600,91299	9,99837,06454,7987	11,06155,41763	2:24
	1,51053,33489	2330,08576	2321,34271	65848,7108	87,91066	
3	99624,01961,73636	11 49939,70554	11 54279,57028	9,99836,40606,0879	11,06067,50697	1:48
	1,51356,80700	2320,75142	2312,00830	65982,0048	87,73572	
2	99622,50604,92936	11 47618,95412	11 51967,56198	9,99835,74624,0831	11,05979,77125	1:12
	1,51660,27451	2311,47320	2302,73001	66115,3029	87,56150	
1	99620,98944,65485	11 45307,48092	11 49664,83197	9,99835,08508,7802	11,05892,20975	0:36
	1,51963,73739	2302,25064	2293,50740	66248,6052	87,38798	
0	99619,46980,91746	11 43005,23028	11 47371,32457	9,99834,42260,1750	11,05804,82177	0: 0
	1,52267,19566	2293,08332	2284,34001	66381,9115	87,21515	

GRAD. 85.

5. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	8715,57427,47658 17,38674,46386	8748,86635 17,58716	1 00381,98375 1,53435	8,94029,60083,3012 86,55133,0833	8,94195,17823 87,21515	0: 0
1	8732,96101,94044 17,38647,86173	8766,45351 17,58769	1 00383,51810 1,53746	8,94116,15216,3845 86,37786,3834	8,94282,39338 87,04302	0:36
2	8750,34749,80217 17,38621,20665	8784,04120 17,58823	1 00385,05556 1,54056	8,94202,53002,7679 86,20508,5490	8,94369,43640 86,87157	1:12
3	8767,73371,00882 17,38594,49861	8801,62943 17,58877	1 00386,59612 1,54367	8,94288,73511,3169 86,03299,1700	8,94456,30797 86,70081	1:48
4	8785,11965,50743 17,38567,73760	8819,21820 17,58931	1 00388,13979 1,54677	8,94374,76810,4869 85,86157,8391	8,94543,00878 86,53073	2:24
5	8802,50533,24503 17,38540,92364	8836,80751 17,58986	1 00389,68656 1,54987	8,94460,62968,3260 85,69084,1527	8,94629,53951 86,36133	3: 0
6	8819,89074,16867 17,38514,05672	8854,39737 17,59040	1 00391,23643 1,55299	8,94546,32052,4787 85,52077,7099	8,94715,90084 86,19259	3:36
7	8837,27588,22539 17,38487,13683	8871,98777 17,59094	1 00392,78942 1,55609	8,94631,84130,1886 85,35138,1133	8,94802,09343 86,02453	4:12
8	8854,66075,36222 17,38460,16400	8889,57871 17,59149	1 00394,34551 1,55919	8,94717,19268,3019 85,18264,9686	8,94888,11796 85,85714	4:48
9	8872,04535,52622 17,38433,13820	8907,17020 17,59204	1 00395,90470 1,56230	8,94802,37533,2705 85,01457,8844	8,94973,97510 85,69040	5:24
10	8889,42968,66442 17,38406,05944	8924,76224 17,59258	1 00397,46700 1,56541	8,94887,38991,1549 84,84716,4725	8,95059,66550 85,52431	6: 0
11	8906,81374,72386 17,38378,92774	8942,35482 17,59313	1 00399,03241 1,56852	8,94972,23707,6274 84,68040,3479	8,95145,18981 85,35889	6:36
12	8924,19753,65160 17,38351,74309	8959,94795 17,59369	1 00400,60093 1,57163	8,95056,91747,9753 84,51429,1280	8,95230,54870 85,19411	7:12
13	8941,58105,39469 17,38324,50546	8977,54164 17,59423	1 00402,17256 1,57473	8,95141,43177,1033 84,34882,4342	8,95315,74281 85,02998	7:48
14	8958,96429,90015 17,38297,21490	8995,13587 17,59479	1 00403,74729 1,57784	8,95225,78059,5375 84,18399,8897	8,95400,77279 84,86648	8:24
15	8976,34727,11505 17,38269,87139	9012,73066 17,59534	1 00405,32513 1,58095	8,95309,96459,4272 84,01981,1216	8,95485,63927 84,70364	9: 0
16	8993,72996,98644 17,38242,47492	9030,32600 17,59590	1 00406,90608 1,58405	8,95393,98440,5488 83,85625,7591	8,95570,34291 84,54141	9:36
17	9011,11239,46136 17,38215,02549	9047,92190 17,59645	1 00408,49013 1,58717	8,95477,84066,3079 83,69333,4350	8,95654,88432 84,37982	10:12
18	9028,49454,48685 17,38187,52314	9065,51835 17,59701	1 00410,07730 1,59027	8,95561,53399,7429 83,53103,7842	8,95739,26414 84,21886	10:48
19	9045,87642,00999 17,38159,96781	9083,11536 17,59757	1 00411,66757 1,59339	8,95645,06503,5271 83,36936,4451	8,95823,48300 84,05852	11:24
20	9063,25801,97780 17,38132,35955	9100,71293 17,59812	1 00413,26096 1,59649	8,95728,43439,9722 83,20831,0582	8,95907,54152 83,89880	12: 0
21	9080,63934,33735 17,38104,69835	9118,31105 17,59869	1 00414,85745 1,59960	8,95811,64271,0304 83,04787,2675	8,95991,44032 83,73969	12:36
22	9098,02039,03570 17,38076,98419	9135,90974 17,59924	1 00416,45705 1,60271	8,95894,69058,2979 82,88804,7190	8,96075,18001 83,58121	13:12
23	9115,40116,01989 17,38049,21709	9153,50898 17,59981	1 00418,05976 1,60583	8,95977,57863,0169 82,72883,0620	8,96158,76122 83,42332	13:48
24	9132,78165,23698 17,38021,39704	9171,10879 17,60038	1 00419,66559 1,60893	8,96060,30746,0789 82,57021,9480	8,96242,18454 83,26604	14:24
25	9150,16186,63402 17,37993,52406	9188,70917 17,60093	1 00421,27452 1,61204	8,96142,87768,0269 82,41221,0314	8,96325,45058 83,10937	15: 0
26	9167,54180,15808 17,37965,59813	9206,31010 17,60151	1 00422,88656 1,61516	8,96225,28989,0583 82,25479,9694	8,96408,55995 82,95329	15:36
27	9184,92145,75621 17,37937,61926	9223,91161 17,60207	1 00424,50172 1,61826	8,96307,54469,0277 82,09798,4214	8,96491,51324 82,79782	16:12
28	9202,30083,37547 17,37909,58745	9241,51368 17,60263	1 00426,11998 1,62138	8,96389,64267,4491 81,94176,0496	8,96574,31106 82,64292	16:48
29	9219,67992,96292 17,37881,50270	9259,11631 17,60321	1 00427,74136 1,62449	8,96471,58443,4987 81,78612,5187	8,96656,95398 82,48862	17:24
30	9237,05874,46562 17,37853,36500	9276,71952 17,60378	1 00429,36585 1,62760	8,96553,37056,0174 81,63107,4960	8,96739,44260 82,33491	18: 0
31	9254,43727,83062 17,37825,17438	9294,32330 17,60434	1 00430,99345 1,63071	8,96635,00163,5134 81,47660,6512	8,96821,77751 82,18177	18:36
32	9271,81553,00500 17,37796,93081	9311,92764 17,60492	1 00432,62416 1,63383	8,96716,47824,1646 81,32271,6567	8,96903,95928 82,02921	19:12
33	9289,19349,93581 17,37768,63432	9329,53256 17,60550	1 00434,25799 1,63694	8,96797,80095,8213 81,16940,1870	8,96985,98849 81,87724	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99619,46980,91746 1,52267,19566	11 43005,23028 2293,08332	11 47371,32457 2284,34001	9,99834,42260,1750 66381,9115	11,05804,82177 87,21515	60: 0
99	99617,94713,72180 1,52570,64927	11 40712,14696 2283,97078	11 45086,98456 2275,22740	9,99833,75878,2635 66515,2218	11,05717,60662 87,04302	59:24
98	99616,42143,07253 1,52874,09825	11 38428,17618 2274,91259	11 42811,75716 2266,16914	9,99833,09363,0417 66648,5362	11,05630,56360 86,87157	58:48
97	99614,89268,97428 1,53177,54256	11 36153,26359 2265,90832	11 40545,58802 2257,16480	9,99832,42714,5055 66781,8548	11,05543,69203 86,70081	58:12
96	99613,36091,43172 1,53480,98220	11 33887,35527 2256,95753	11 38288,42322 2248,21395	9,99831,75932,6507 66915,1774	11,05456,99122 86,53073	57:36
95	99611,82610,44952 1,53784,41719	11 31630,39774 2248,05982	11 36040,20927 2239,31617	9,99831,09017,4733 67048,5041	11,05370,46049 86,36133	57: 0
94	99610,28826,03233 1,54087,84747	11 29382,33792 2239,21476	11 33800,89310 2230,47103	9,99830,41968,9692 67181,8350	11,05284,09916 86,19259	56:24
93	99608,74738,18486 1,54391,27307	11 27143,12316 2230,42192	11 31570,42207 2221,67814	9,99829,74787,1342 67315,1699	11,05197,90657 86,02453	55:48
92	99607,20346,91179 1,54694,69395	11 24912,70124 2221,68092	11 29348,74393 2212,93707	9,99829,07471,9643 67448,5091	11,05111,88204 85,85714	55:12
91	99605,65652,21784 1,54998,11014	11 22691,02032 2212,99133	11 27135,80686 2204,24741	9,99828,40023,4552 67581,8523	11,05026,02490 85,69040	54:36
90	99604,10654,10770 1,55301,52160	11 20478,02899 2204,35276	11 24931,55945 2195,60877	9,99827,72441,6029 67715,1997	11,04940,33450 85,52431	54: 0
89	99602,55352,58610 1,55604,92833	11 18273,67623 2195,76481	11 22735,95068 2187,02075	9,99827,04726,4032 67848,5513	11,04854,81019 85,35889	53:24
88	99600,99747,65777 1,55908,33031	11 16077,91142 2187,22707	11 20548,92993 2178,48295	9,99826,36877,8519 67981,9070	11,04769,45130 85,19411	52:48
87	99599,43839,32746 1,56211,72755	11 13890,68435 2178,73917	11 18370,44698 2169,99498	9,99825,68895,9449 68115,2669	11,04684,25719 85,02998	52:12
86	99597,87627,59991 1,56515,12004	11 11711,94518 2170,30072	11 16200,45200 2161,55645	9,99825,00780,6780 68248,6310	11,04599,22721 84,86648	51:36
85	99596,31112,47987 1,56818,50774	11 09541,64446 2161,91132	11 14038,89555 2153,16699	9,99824,32532,0470 68381,9993	11,04514,36073 84,70364	51: 0
84	99594,74293,97213 1,57121,89068	11 07379,73314 2153,57060	11 11885,72856 2144,82621	9,99823,64150,0477 68515,3718	11,04429,65709 84,54141	50:24
83	99593,17172,08145 1,57425,26883	11 05226,16254 2145,27820	11 09740,90235 2136,53373	9,99822,95634,6759 68648,7484	11,04345,11568 84,37982	49:48
82	99591,59746,81262 1,57728,64218	11 03080,88434 2137,03372	11 07604,36862 2128,28918	9,99822,26985,9275 68782,1294	11,04260,73586 84,21886	49:12
81	99590,02018,17044 1,58032,01074	11 00943,85062 2128,83681	11 05476,07944 2120,09220	9,99821,58203,7981 68915,5144	11,04176,51700 84,05852	48:36
80	99588,43986,15970 1,58335,37446	10 98815,01381 2120,68710	11 03355,98724 2111,94243	9,99820,89288,2837 69048,9039	11,04092,45848 83,89880	48: 0
79	99586,85650,78524 1,58638,73338	10 96694,32671 2112,58422	11 01244,04481 2103,83947	9,99820,20239,3798 69182,2974	11,04008,55968 83,73969	47:24
78	99585,27012,05186 1,58942,08746	10 94581,74249 2104,52783	10 99140,20534 2095,78302	9,99819,51057,0824 69315,6953	11,03924,81999 83,58121	46:48
77	99583,68069,96440 1,59245,43670	10 92477,21466 2096,51756	10 97044,42232 2087,77268	9,99818,81741,3871 69449,0974	11,03841,23878 83,42332	46:12
76	99582,08824,52770 1,59548,78108	10 90380,69710 2088,55307	10 94956,64964 2079,80811	9,99818,12292,2897 69582,5037	11,03757,81546 83,26604	45:36
75	99580,49275,74662 1,59852,12061	10 88292,14403 2080,63399	10 92876,84153 2071,88897	9,99817,42709,7860 69715,9145	11,03674,54942 83,10937	45: 0
74	99578,89423,62601 1,60155,45527	10 86211,51004 2072,76001	10 90804,95256 2064,01490	9,99816,72993,8715 69849,3293	11,03591,44005 82,95329	44:24
73	99577,29268,17074 1,60458,78505	10 84138,75003 2064,93075	10 88740,93766 2056,18559	9,99816,03144,5422 69982,7486	11,03508,48676 82,79782	43:48
72	99575,68809,38569 1,60762,10994	10 82073,81928 2057,14589	10 86684,75207 2048,40066	9,99815,33161,7936 70116,1721	11,03425,68894 82,64292	43:12
71	99574,08047,27575 1,61065,42993	10 80016,67339 2049,40512	10 84636,35141 2040,65981	9,99814,63045,6215 70249,6000	11,03343,04602 82,48862	42:36
70	99572,46981,84582 1,61368,74502	10 77967,26827 2041,70806	10 82595,69160 2032,96269	9,99813,92796,0215 70383,0321	11,03260,55740 82,33491	42: 0
69	99570,85613,10080 1,61672,05519	10 75925,56021 2034,05441	10 80562,72891 2025,30896	9,99813,22412,9894 70516,4686	11,03178,22249 82,18177	41:24
68	99569,23941,04561 1,61975,36044	10 73891,50580 2026,44385	10 78537,41995 2017,69833	9,99812,51896,5208 70649,9094	11,03096,04072 82,02921	40:48
67	99567,61965,68517 1,62278,66075	10 71865,06195 2018,87603	10 76519,72162 2010,13044	9,99811,81246,6114 70783,3545	11,03014,01151 81,87724	40:12

GRAD. 84.

5. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	9289,19349,93581 17,37768,63432	9329,53256 17,60550	1 00434,25799 1,63694	8,96797,80095,8213 81,16940,1870	8,96985,98849 81,87724	19:48
34	9306,57118,57013 17,37740,28487	9347,13806 17,60606	1 00435,89493 1,64005	8,96878,97036,0083 81,01665,9192	8,97067,86573 81,72582	20:24
35	9323,94858,85500 17,37711,88251	9364,74412 17,60665	1 00437,53498 1,64316	8,96959,98701,9275 80,86448,5330	8,97149,59155 81,57499	21: 0
36	9341,32570,73751 17,37683,42719	9382,35077 17,60722	1 00439,17814 1,64628	8,97040,85150,4605 80,71287,7103	8,97231,16654 81,42472	21:36
37	9358,70254,16470 17,37654,91896	9399,95799 17,60780	1 00440,82442 1,64939	8,97121,56438,1708 80,56183,1353	8,97312,59126 81,27500	22:12
38	9376,07909,08366 17,37626,35779	9417,56579 17,60837	1 00442,47381 1,65251	8,97202,12621,3061 80,41134,4947	8,97393,86626 81,12585	22:48
39	9393,45535,44145 17,37597,74369	9435,17416 17,60896	1 00444,12632 1,65562	8,97282,53755,8008 80,26141,4775	8,97474,99211 80,97726	23:24
40	9410,83133,18514 17,37569,07666	9452,78312 17,60954	1 00445,78194 1,65873	8,97362,79897,2783 80,11203,7748	8,97555,96937 80,82921	24: 0
41	9428,20702,26180 17,37540,35670	9470,39266 17,61011	1 00447,44067 1,66185	8,97442,91101,0531 79,96321,0804	8,97636,79858 80,68172	24:36
42	9445,58242,61850 17,37511,58380	9488,00277 17,61071	1 00449,10252 1,66496	8,97522,87422,1335 79,81493,0898	8,97717,48030 80,53478	25:12
43	9462,95754,20230 17,37482,75799	9505,61348 17,61128	1 00450,76748 1,66808	8,97602,68915,2233 79,66719,5014	8,97798,01508 80,38837	25:48
44	9480,33236,96029 17,37453,87925	9523,22476 17,61188	1 00452,43556 1,67119	8,97682,35634,7247 79,52000,0152	8,97878,40345 80,24252	26:24
45	9497,70690,83954 17,37424,94758	9540,83664 17,61246	1 00454,10675 1,67431	8,97761,87634,7399 79,37334,3337	8,97958,64597 80,09719	27: 0
46	9515,08115,78712 17,37395,96298	9558,44910 17,61304	1 00455,78106 1,67743	8,97841,24969,0736 79,22722,1616	8,98038,74316 79,95241	27:36
47	9532,45511,75010 17,37366,92546	9576,06214 17,61364	1 00457,45849 1,68054	8,97920,47691,2352 79,08163,2056	8,98118,69557 79,80815	28:12
48	9549,82878,67556 17,37337,83502	9593,67578 17,61422	1 00459,13903 1,68366	8,97999,55854,4408 78,93657,1748	8,98198,50372 79,66443	28:48
49	9567,20216,51058 17,37308,69166	9611,29000 17,61482	1 00460,82269 1,68678	8,98078,49511,6156 78,79203,7801	8,98278,16815 79,52123	29:24
50	9584,57525,20224 17,37279,49537	9628,90482 17,61541	1 00462,50947 1,68989	8,98157,28715,3957 78,64802,7347	8,98357,68938 79,37855	30: 0
51	9601,94804,69761 17,37250,24617	9646,52023 17,61600	1 00464,19936 1,69301	8,98235,93518,1304 78,50453,7539	8,98437,06793 79,23640	30:36
52	9619,32054,94378 17,37220,94403	9664,13623 17,61660	1 00465,89237 1,69612	8,98314,43971,8843 78,36156,5549	8,98516,30433 79,09476	31:12
53	9636,69275,88781 17,37191,58900	9681,75283 17,61719	1 00467,58849 1,69925	8,98392,80128,4392 78,21910,8570	8,98595,39909 78,95364	31:48
54	9654,06467,47681 17,37162,18103	9699,37002 17,61778	1 00469,28774 1,70236	8,98471,02039,2962 78,07716,3817	8,98674,35273 78,81303	32:24
55	9671,43629,65784 17,37132,72015	9716,98780 17,61839	1 00470,99010 1,70548	8,98549,09755,6779 77,93572,8523	8,98753,16576 78,67294	33: 0
56	9688,80762,37799 17,37103,20636	9734,60619 17,61898	1 00472,69558 1,70860	8,98627,03328,5302 77,79479,9941	8,98831,83870 78,53333	33:36
57	9706,17865,58435 17,37073,63964	9752,22517 17,61959	1 00474,40418 1,71172	8,98704,82808,5243 77,65437,5345	8,98910,37203 78,39425	34:12
58	9723,54939,22399 17,37044,02002	9769,84476 17,62018	1 00476,11590 1,71484	8,98782,48246,0588 77,51445,2028	8,98988,76628 78,25566	34:48
59	9740,91983,24401 17,37014,34748	9787,46494 17,62079	1 00477,83074 1,71796	8,98859,99691,2616 77,37502,7302	8,99067,02194 78,11758	35:24
60	9758,28997,59149 17,36984,62204	9805,08573 17,62139	1 00479,54870 1,72107	8,98937,37193,9918 77,23609,8498	8,99145,13952 77,97998	36: 0
61	9775,65982,21353 17,36954,84366	9822,70712 17,62199	1 00481,26977 1,72420	8,99014,60803,8416 77,09766,2965	8,99223,11950 77,84287	36:36
62	9793,02937,05719 17,36925,01240	9840,32911 17,62260	1 00482,99397 1,72732	8,99091,70570,1381 76,95971,8076	8,99300,96237 77,70627	37:12
63	9810,39862,06959 17,36895,12821	9857,95171 17,62321	1 00484,72129 1,73043	8,99168,66541,9457 76,82226,1215	8,99378,66864 77,57015	37:48
64	9827,76757,19780 17,36865,19112	9875,57492 17,62381	1 00486,45172 1,73356	8,99245,48768,0672 76,68528,9790	8,99456,23879 77,43452	38:24
65	9845,13622,38892 17,36835,20112	9893,19873 17,62442	1 00488,18528 1,73668	8,99322,17297,0462 76,54880,1226	8,99533,67331 77,29936	39: 0
66	9862,50457,59004 17,36805,15821	9910,82315 17,62503	1 00489,92196 1,73980	8,99398,72177,1688 76,41279,2965	8,99610,97267 77,16469	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99567,61965,68517 1,62278,66075	10 71865,06195 2018,87603	10 76519,72162 2010,13044	9,99811,81246,6114 70783,3545	11,03014,01151 81,87724	40:12
66	99565,99687,02442 1,62581,95612	10 69846,18592 2011,35066	10 74509,59118 2002,60500	9,99811,10463,2569 70916,8040	11,02932,13427 81,72582	39:36
65	99564,37105,06830 1,62885,24654	10 67834,83526 2003,86740	10 72506,98618 1995,12167	9,99810,39546,4529 71050,2579	11,02850,40845 81,57499	39: 0
64	99562,74219,82176 1,63188,53200	10 65830,96786 1996,42595	10 70511,86451 1987,68015	9,99809,68496,1950 71183,7162	11,02768,83346 81,42472	38:24
63	99561,11031,28976 1,63491,81248	10 63834,54191 1989,02599	10 68524,18436 1980,28012	9,99808,97312,4788 71317,1787	11,02687,40874 81,27500	37:48
62	99559,47539,47728 1,63795,08798	10 61845,51592 1981,66723	10 66543,90424 1972,92128	9,99808,25995,3001 71450,6457	11,02606,13374 81,12585	37:12
61	99557,83744,38930 1,64098,35850	10 59863,84869 1974,34935	10 64570,98296 1965,60333	9,99807,54544,6544 71584,1171	11,02525,00789 80,97726	36:36
60	99556,19646,03080 1,64401,62401	10 57889,49934 1967,07204	10 62605,37963 1958,32595	9,99806,82960,5373 71717,5929	11,02444,03063 80,82921	36: 0
59	99554,55244,40679 1,64704,88453	10 55922,42730 1959,83502	10 60647,05368 1951,08886	9,99806,11242,9444 71851,0730	11,02363,20142 80,68172	35:24
58	99552,90539,52226 1,65008,14001	10 53962,59228 1952,63797	10 58695,96482 1943,89174	9,99805,39391,8714 71984,5577	11,02282,51970 80,53478	34:48
57	99551,25531,38225 1,65311,39048	10 52009,95431 1945,48063	10 56752,07308 1936,73432	9,99804,67407,3137 72118,0467	11,02201,98492 80,38837	34:12
56	99549,60219,99177 1,65614,63591	10 50064,47368 1938,36268	10 54815,33876 1929,61630	9,99803,95289,2670 72251,5401	11,02121,59655 80,24252	33:36
55	99547,94605,35586 1,65917,87629	10 48126,11100 1931,28383	10 52885,72246 1922,53738	9,99803,23037,7269 72385,0380	11,02041,35403 80,09719	33: 0
54	99546,28687,47957 1,66221,11162	10 46194,82717 1924,24381	10 50963,18508 1915,49729	9,99802,50652,6889 72518,5404	11,01961,25684 79,95241	32:24
53	99544,62466,36795 1,66524,34189	10 44270,58336 1917,24234	10 49047,68779 1908,49574	9,99801,78134,1485 72652,0472	11,01881,30443 79,80815	31:48
52	99542,95942,02606 1,66827,56708	10 42353,34102 1910,27912	10 47139,19205 1901,53245	9,99801,05482,1013 72785,5585	11,01801,49628 79,66443	31:12
51	99541,29114,45898 1,67130,78719	10 40443,06190 1903,35389	10 45237,65960 1894,60714	9,99800,32696,5428 72919,0743	11,01721,83185 79,52123	30:36
50	99539,61983,67179 1,67434,00222	10 38539,70801 1896,46635	10 43343,05246 1887,71953	9,99799,59777,4685 73052,5944	11,01642,31062 79,37855	30: 0
49	99537,94549,66957 1,67737,21213	10 36643,24166 1889,61626	10 41455,33293 1880,86937	9,99798,86724,8741 73186,1192	11,01562,93207 79,23640	29:24
48	99536,26812,45744 1,68040,41695	10 34753,62540 1882,80332	10 39574,46356 1874,05635	9,99798,13538,7549 73319,6485	11,01483,69567 79,09476	28:48
47	99534,58772,04049 1,68343,61663	10 32870,82208 1876,02727	10 37700,40721 1867,28024	9,99797,40219,1064 73453,1821	11,01404,60091 78,95364	28:12
46	99532,90428,42386 1,68646,81121	10 30994,79481 1869,28786	10 35833,12697 1860,54075	9,99796,66765,9243 73586,7205	11,01325,64727 78,81303	27:36
45	99531,21781,61265 1,68950,00062	10 29125,50695 1862,58481	10 33972,58622 1853,83763	9,99795,93179,2038 73720,2632	11,01246,83424 78,67294	27: 0
44	99529,52831,61203 1,69253,18491	10 27262,92214 1855,91787	10 32118,74859 1847,17060	9,99795,19458,9406 73853,8105	11,01168,16130 78,53333	26:24
43	99527,83578,42712 1,69556,36404	10 25407,00427 1849,28676	10 30271,57799 1840,53942	9,99794,45605,1301 73987,3624	11,01089,62797 78,39425	25:48
42	99526,14022,06308 1,69859,53799	10 23557,71751 1842,69124	10 28431,03857 1833,94384	9,99793,71617,7677 74120,9187	11,01011,23372 78,25566	25:12
41	99524,44162,52509 1,70162,70678	10 21715,02627 1836,13106	10 26597,09473 1827,38357	9,99792,97496,8490 74254,4798	11,00932,97806 78,11758	24:36
40	99522,73999,81831 1,70465,87038	10 19878,89521 1829,60595	10 24769,71116 1820,85840	9,99792,23242,3692 74388,0453	11,00854,86048 77,97998	24: 0
39	99521,03533,94793 1,70769,02879	10 18049,28926 1823,11569	10 22948,85276 1814,36806	9,99791,48854,3239 74521,6154	11,00776,88050 77,84287	23:24
38	99519,32764,91914 1,71072,18200	10 16226,17357 1816,66000	10 21134,48470 1807,91229	9,99790,74332,7085 74655,1900	11,00699,03763 77,70627	22:48
37	99517,61692,73714 1,71375,32999	10 14409,51357 1810,23866	10 19326,57241 1801,49087	9,99789,99677,5185 74788,7694	11,00621,33136 77,57015	22:12
36	99515,90317,40715 1,71678,47277	10 12599,27491 1803,85140	10 17525,08154 1795,10355	9,99789,24888,7491 74922,3532	11,00543,76121 77,43452	21:36
35	99514,18638,93438 1,71981,61031	10 10795,42351 1797,49801	10 15729,97799 1788,75008	9,99788,49966,3959 75055,9418	11,00466,32669 77,29936	21: 0
34	99512,46657,32407 1,72284,74262	10 08997,92550 1791,17823	10 13941,22791 1782,43022	9,99787,74910,4541 75189,5348	11,00389,02733 77,16469	20:24

GRAD. 84.

5. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	9879,87262,74825	9928,44818	1 00491,66176	8,99475,13456,4653	8,99688,13736	40:12
	17,36775,06240	17,62565	1,74292	76,27726,2469	77,03049	
68	9897,24037,81065	9946,07383	1 00493,40468	8,99551,41182,7122	8,99765,16785	40:48
	17,36744,91368	17,62625	1,74605	76,14220,7216	76,89677	
69	9914,60782,72433	9963,70008	1 00495,15073	8,99627,55403,4338	8,99842,06462	41:24
	17,36714,71206	17,62687	1,74916	76,00762,4702	76,76353	
70	9931,97497,43639	9981,32695	1 00496,89989	8,99703,56165,9040	8,99918,82815	42: 0
	17,36684,45753	17,62748	1,75229	75,87351,2444	76,63075	
71	9949,34181,89392	9998,95443	1 00498,65218	8,99779,43517,1484	8,99995,45890	42:36
	17,36654,15011	17,62810	1,75541	75,73986,7969	76,49845	
72	9966,70836,04403	10016,58253	1 00500,40759	8,99855,17503,9453	9,00071,95735	43:12
	17,36623,78977	17,62871	1,75853	75,60668,8828	76,36660	
73	9984,07459,83380	10034,21124	1 00502,16612	8,99930,78172,8281	9,00148,32395	43:48
	17,36593,37655	17,62933	1,76166	75,47397,2588	76,23522	
74	10001,44053,21035	10051,84057	1 00503,92778	9,00006,25570,0869	9,00224,55917	44:24
	17,36562,91041	17,62995	1,76478	75,34171,6830	76,10430	
75	10018,80616,12076	10069,47052	1 00505,69256	9,00081,59741,7699	9,00300,66347	45: 0
	17,36532,39139	17,63057	1,76790	75,20991,9154	75,97384	
76	10036,17148,51215	10087,10109	1 00507,46046	9,00156,80733,6853	9,00376,63731	45:36
	17,36501,81946	17,63119	1,77103	75,07857,7176	75,84383	
77	10053,53650,33161	10104,73228	1 00509,23149	9,00231,88591,4029	9,00452,48114	46:12
	17,36471,19463	17,63181	1,77415	74,94768,8529	75,71429	
78	10070,90121,52624	10122,36409	1 00511,00564	9,00306,83360,2558	9,00528,19543	46:48
	17,36440,51692	17,63243	1,77728	74,81725,0862	75,58518	
79	10088,26562,04316	10139,99652	1 00512,78292	9,00381,65085,3420	9,00603,78061	47:24
	17,36409,78630	17,63306	1,78040	74,68726,1841	75,45653	
80	10105,62971,82946	10157,62958	1 00514,56332	9,00456,33811,5261	9,00679,23714	48: 0
	17,36379,00280	17,63369	1,78352	74,55771,9145	75,32832	
81	10122,99350,83226	10175,26327	1 00516,34684	9,00530,89583,4406	9,00754,56546	48:36
	17,36348,16639	17,63431	1,78665	74,42862,0475	75,20056	
82	10140,35698,99865	10192,89758	1 00518,13349	9,00605,32445,4881	9,00829,76602	49:12
	17,36317,27710	17,63493	1,78978	74,29996,3541	75,07324	
83	10157,72016,27575	10210,53251	1 00519,92327	9,00679,62441,8422	9,00904,83926	49:48
	17,36286,33491	17,63557	1,79290	74,17174,6074	74,94636	
84	10175,08302,61066	10228,16808	1 00521,71617	9,00753,79616,4496	9,00979,78562	50:24
	17,36255,33984	17,63620	1,79603	74,04396,5816	74,81991	
85	10192,44557,95050	10245,80428	1 00523,51220	9,00827,84013,0312	9,01054,60553	51: 0
	17,36224,29187	17,63682	1,79916	73,91662,0530	74,69391	
86	10209,80782,24237	10263,44110	1 00525,31136	9,00901,75675,0842	9,01129,29944	51:36
	17,36193,19102	17,63746	1,80228	73,78970,7988	74,56833	
87	10227,16975,43339	10281,07856	1 00527,11364	9,00975,54645,8830	9,01203,86777	52:12
	17,36162,03728	17,63809	1,80541	73,66322,5982	74,44319	
88	10244,53137,47067	10298,71665	1 00528,91905	9,01049,20968,4812	9,01278,31096	52:48
	17,36130,83066	17,63873	1,80853	73,53717,2316	74,31847	
89	10261,89268,30133	10316,35538	1 00530,72758	9,01122,74685,7128	9,01352,62943	53:24
	17,36099,57114	17,63936	1,81167	73,41154,4812	74,19418	
90	10279,25367,87247	10333,99474	1 00532,53925	9,01196,15840,1940	9,01426,82361	54: 0
	17,36068,25874	17,64000	1,81479	73,28634,1303	74,07031	
91	10296,61436,13121	10351,63474	1 00534,35404	9,01269,44474,3243	9,01500,89392	54:36
	17,36036,89346	17,64063	1,81792	73,16155,9640	73,94687	
92	10313,97473,02467	10369,27537	1 00536,17196	9,01342,60630,2883	9,01574,84079	55:12
	17,36005,47530	17,64127	1,82104	73,03719,7685	73,82385	
93	10331,33478,49997	10386,91664	1 00537,99300	9,01415,64350,0568	9,01648,66464	55:48
	17,35974,00426	17,64192	1,82418	72,91325,3319	73,70123	
94	10348,69452,50423	10404,55856	1 00539,81718	9,01488,55675,3887	9,01722,36587	56:24
	17,35942,48032	17,64255	1,82731	72,78972,4433	73,57905	
95	10366,05394,98455	10422,20111	1 00541,64449	9,01561,34647,8320	9,01795,94492	57: 0
	17,35910,90352	17,64319	1,83043	72,66660,8934	73,45726	
96	10383,41305,88807	10439,84430	1 00543,47492	9,01634,01308,7254	9,01869,40218	57:36
	17,35879,27384	17,64384	1,83356	72,54390,4745	73,33590	
97	10400,77185,16191	10457,48814	1 00545,30848	9,01706,55699,1999	9,01942,73808	58:12
	17,35847,59127	17,64449	1,83670	72,42160,9797	73,21495	
98	10418,13032,75318	10475,13263	1 00547,14518	9,01778,97860,1796	9,02015,95303	58:48
	17,35815,85584	17,64512	1,83982	72,29972,2041	73,09439	
99	10435,48848,60902	10492,77775	1 00548,98500	9,01851,27832,3837	9,02089,04742	59:24
	17,35784,06751	17,64578	1,84296	72,17823,9441	72,97425	
100	10452,84632,67653	10510,42353	1 00550,82796	9,01923,45656,3278	9,02162,02167	60: 0
	17,35752,22633	17,64642	1,84608	72,05715,9969	72,85450	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99510,74372,58145 1,72587,86969	10 07206,74727 1784,89183	10 12158,79769 1776,14374	9,99786,99720,9193 75323,1326	11,00311,86264 77,03049	19:48
32	99509,01784,71176 1,72890,99148	10 05421,85544 1778,63857	10 10382,65395 1769,89042	9,99786,24397,7867 75456,7350	11,00234,83215 76,89677	19:12
31	99507,28893,72028 1,73194,10802	10 03643,21687 1772,41823	10 08612,76353 1763,66999	9,99785,48941,0517 75590,3420	11,00157,93538 76,76353	18:36
30	99505,55699,61226 1,73497,21928	10 01870,79864 1766,23057	10 06849,09354 1757,48226	9,99784,73350,7097 75723,9536	11,00081,17185 76,63075	18: 0
29	99503,82202,39298 1,73800,32525	10 00104,56807 1760,07536	10 05091,61128 1751,32697	9,99783,97626,7561 75857,5700	11,00004,54110 76,49845	17:24
28	99502,08402,06773 1,74103,42593	9 98344,49271 1753,95238	10 03340,28431 1745,20391	9,99783,21769,1861 75991,1910	10,99928,04265 76,36660	16:48
27	99500,34298,64180 1,74406,52131	9 96590,54033 1747,86140	10 01595,08040 1739,11286	9,99782,45777,9951 76124,8166	10,99851,67605 76,23522	16:12
26	99498,59892,12049 1,74709,61137	9 94842,67893 1741,80220	9 99855,96754 1733,05358	9,99781,69653,1785 76258,4470	10,99775,44083 76,10430	15:36
25	99496,85182,50912 1,75012,69612	9 93100,87673 1735,77455	9 98122,91396 1727,02586	9,99780,93394,7315 76392,0820	10,99699,33653 75,97384	15: 0
24	99495,10169,81300 1,75315,77552	9 91365,10218 1729,77826	9 96395,88810 1721,02949	9,99780,17002,6495 76525,7218	10,99623,36269 75,84383	14:24
23	99493,34854,03748 1,75618,84960	9 89635,32392 1723,81307	9 94674,85861 1715,06422	9,99779,40476,9277 76659,3662	10,99547,51886 75,71429	13:48
22	99491,59235,18788 1,75921,91832	9 87911,51085 1717,87880	9 92959,79439 1709,12988	9,99778,63817,5615 76793,0154	10,99471,80457 75,58518	13:12
21	99489,83313,26956 1,76224,98168	9 86193,63205 1711,97523	9 91250,66451 1703,22622	9,99777,87024,5461 76926,6694	10,99396,21939 75,45653	12:36
20	99488,07088,28788 1,76528,03967	9 84481,65682 1706,10213	9 89547,43829 1697,35306	9,99777,10097,8767 77060,3279	10,99320,76286 75,32832	12: 0
19	99486,30560,24821 1,76831,09229	9 82775,55469 1700,25932	9 87850,08523 1691,51015	9,99776,33037,5488 77193,9914	10,99245,43454 75,20056	11:24
18	99484,53729,15592 1,77134,13952	9 81075,29537 1694,44656	9 86158,57508 1685,69733	9,99775,55843,5574 77327,6594	10,99170,23398 75,07324	10:48
17	99482,76595,01640 1,77437,18135	9 79380,84881 1688,66366	9 84472,87775 1679,91436	9,99774,78515,8980 77461,3324	10,99095,16074 74,94636	10:12
16	99480,99157,83505 1,77740,21779	9 77692,18515 1682,91044	9 82792,96339 1674,16104	9,99774,01054,5656 77595,0100	10,99020,21438 74,81991	9:36
15	99479,21417,61726 1,78043,24879	9 76009,27471 1677,18664	9 81118,80235 1668,43718	9,99773,23459,5556 77728,6925	10,98945,39447 74,69391	9: 0
14	99477,43374,36847 1,78346,27439	9 74332,08807 1671,49212	9 79450,36517 1662,74257	9,99772,45730,8631 77862,3797	10,98870,70056 74,56833	8:24
13	99475,65028,09408 1,78649,29455	9 72660,59595 1665,82665	9 77787,62260 1657,07702	9,99771,67868,4834 77996,0717	10,98796,13223 74,44319	7:48
12	99473,86378,79953 1,78952,30926	9 70994,76930 1660,19002	9 76130,54558 1651,44032	9,99770,89872,4117 78129,7685	10,98721,68904 74,31847	7:12
11	99472,07426,49027 1,79255,31853	9 69334,57928 1654,58207	9 74479,10526 1645,83229	9,99770,11742,6432 78263,4701	10,98647,37057 74,19418	6:36
10	99470,28171,17174 1,79558,32233	9 67679,99721 1649,00257	9 72833,27297 1640,25271	9,99769,33479,1731 78397,1766	10,98573,17639 74,07031	6: 0
9	99468,48612,84941 1,79861,32067	9 66030,99464 1643,45136	9 71193,02026 1634,70142	9,99768,55081,9965 78530,8879	10,98499,10608 73,94687	5:24
8	99466,68751,52874 1,80164,31352	9 64387,54328 1637,92823	9 69558,31884 1629,17821	9,99767,76551,1086 78664,6040	10,98425,15921 73,82385	4:48
7	99464,88587,21522 1,80467,30090	9 62749,61505 1632,43299	9 67929,14063 1623,68289	9,99766,97886,5046 78798,3249	10,98351,33536 73,70123	4:12
6	99463,08119,91432 1,80770,28276	9 61117,18206 1626,96546	9 66305,45774 1618,21529	9,99766,19088,1797 78932,0508	10,98277,63413 73,57905	3:36
5	99461,27349,63156 1,81073,25913	9 59490,21660 1621,52545	9 64687,24245 1612,77519	9,99765,40156,1289 79065,7814	10,98204,05508 73,45726	3: 0
4	99459,46276,37243 1,81376,22997	9 57868,69115 1616,11278	9 63074,46726 1607,36245	9,99764,61090,3475 79199,5169	10,98130,59782 73,33590	2:24
3	99457,64900,14246 1,81679,19530	9 56252,57837 1610,72726	9 61467,10481 1601,97684	9,99763,81890,8306 79333,2574	10,98057,26192 73,21495	1:48
2	99455,83220,94716 1,81982,15509	9 54641,85111 1605,36872	9 59865,12797 1596,61823	9,99763,02557,5732 79467,0027	10,97984,04697 73,09439	1:12
1	99454,01238,79207 1,82285,10934	9 53036,48239 1600,03697	9 58268,50974 1591,28639	9,99762,23090,5705 79600,7528	10,97910,95258 72,97425	0:36
0	99452,18953,68273 1,82588,05802	9 51436,44542 1594,73183	9 56677,22335 1585,98117	9,99761,43489,8177 79734,5080	10,97837,97833 72,85450	0: 0

GRAD. 84.

6. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	10452,84632,67653	10510,42353	1 00550,82796	9,01923,45656,3278	9,02162,02167	0: 0
	17,35752,22633	17,64642	1,84608	72,05715,9969	72,85450	
1	10470,20384,90286	10528,06995	1 00552,67404	9,01995,51372,3247	9,02234,87617	0:36
	17,35720,33226	17,64707	1,84922	71,93648,1617	72,73516	
2	10487,56105,23512	10545,71702	1 00554,52326	9,02067,45020,4864	9,02307,61133	1:12
	17,35688,38533	17,64772	1,85234	71,81620,2386	72,61623	
3	10504,91793,62045	10563,36474	1 00556,37560	9,02139,26640,7250	9,02380,22756	1:48
	17,35656,38551	17,64837	1,85548	71,69632,0295	72,49768	
4	10522,27450,00596	10581,01311	1 00558,23108	9,02210,96272,7545	9,02452,72524	2:24
	17,35624,33284	17,64902	1,85861	71,57683,3370	72,37952	
5	10539,63074,33880	10598,66213	1 00560,08969	9,02282,53956,0915	9,02525,10476	3: 0
	17,35592,22728	17,64967	1,86174	71,45773,9653	72,26178	
6	10556,98666,56608	10616,31180	1 00561,95143	9,02353,99730,0568	9,02597,36654	3:36
	17,35560,06886	17,65033	1,86488	71,33903,7202	72,14441	
7	10574,34226,63494	10633,96213	1 00563,81631	9,02425,33633,7770	9,02669,51095	4:12
	17,35527,85758	17,65099	1,86801	71,22072,4082	72,02743	
8	10591,69754,49252	10651,61312	1 00565,68432	9,02496,55706,1852	9,02741,53838	4:48
	17,35495,59342	17,65164	1,87114	71,10279,8375	71,91085	
9	10609,05250,08594	10669,26476	1 00567,55546	9,02567,65986,0227	9,02813,44923	5:24
	17,35463,27639	17,65230	1,87427	70,98525,8172	71,79464	
10	10626,40713,36233	10686,91706	1 00569,42973	9,02638,64511,8399	9,02885,24387	6: 0
	17,35430,90651	17,65295	1,87741	70,86810,1582	71,67882	
11	10643,76144,26884	10704,57001	1 00571,30714	9,02709,51321,9981	9,02956,92269	6:36
	17,35398,48376	17,65362	1,88054	70,75132,6720	71,56339	
12	10661,11542,75260	10722,22363	1 00573,18768	9,02780,26454,6701	9,03028,48608	7:12
	17,35366,00814	17,65427	1,88367	70,63493,1717	71,44833	
13	10678,46908,76074	10739,87790	1 00575,07135	9,02850,89947,8418	9,03099,93441	7:48
	17,35333,47967	17,65494	1,88681	70,51891,4718	71,33366	
14	10695,82242,24041	10757,53284	1 00576,95816	9,02921,41839,3136	9,03171,26807	8:24
	17,35300,89833	17,65560	1,88994	70,40327,3873	71,21935	
15	10713,17543,13874	10775,18844	1 00578,84810	9,02991,82166,7009	9,03242,48742	9: 0
	17,35268,26413	17,65627	1,89308	70,28800,7353	71,10542	
16	10730,52811,40287	10792,84471	1 00580,74118	9,03062,10967,4362	9,03313,59284	9:36
	17,35235,57707	17,65693	1,89622	70,17311,3333	70,99186	
17	10747,88046,97994	10810,50164	1 00582,63740	9,03132,28278,7695	9,03384,58470	10:12
	17,35202,83715	17,65760	1,89935	70,05859,0005	70,87868	
18	10765,23249,81709	10828,15924	1 00584,53675	9,03202,34137,7700	9,03455,46338	10:48
	17,35170,04439	17,65826	1,90248	69,94443,5571	70,76587	
19	10782,58419,86148	10845,81750	1 00586,43923	9,03272,28581,3271	9,03526,22925	11:24
	17,35137,19875	17,65894	1,90562	69,83064,8245	70,65342	
20	10799,93557,06023	10863,47644	1 00588,34485	9,03342,11646,1516	9,03596,88267	12: 0
	17,35104,30027	17,65960	1,90876	69,71722,6250	70,54133	
21	10817,28661,36050	10881,13604	1 00590,25361	9,03411,83368,7766	9,03667,42400	12:36
	17,35071,34892	17,66027	1,91190	69,60416,7824	70,42961	
22	10834,63732,70942	10898,79631	1 00592,16551	9,03481,43785,5590	9,03737,85361	13:12
	17,35038,34474	17,66095	1,91503	69,49147,1215	70,31826	
23	10851,98771,05416	10916,45726	1 00594,08054	9,03550,92932,6805	9,03808,17187	13:48
	17,35005,28769	17,66162	1,91817	69,37913,4682	70,20725	
24	10869,33776,34185	10934,11888	1 00595,99871	9,03620,30846,1487	9,03878,37912	14:24
	17,34972,17780	17,66229	1,92130	69,26715,6495	70,09662	
25	10886,68748,51965	10951,78117	1 00597,92001	9,03689,57561,7982	9,03948,47574	15: 0
	17,34939,01504	17,66297	1,92445	69,15553,4935	69,98634	
26	10904,03687,53469	10969,44414	1 00599,84446	9,03758,73115,2917	9,04018,46208	15:36
	17,34905,79946	17,66364	1,92758	69,04426,8294	69,87640	
27	10921,38593,33415	10987,10778	1 00601,77204	9,03827,77542,1211	9,04088,33848	16:12
	17,34872,53101	17,66432	1,93072	68,93335,4877	69,76684	
28	10938,73465,86516	11004,77210	1 00603,70276	9,03896,70877,6088	9,04158,10532	16:48
	17,34839,20971	17,66500	1,93386	68,82279,2995	69,65761	
29	10956,08305,07487	11022,43710	1 00605,63662	9,03965,53156,9083	9,04227,76293	17:24
	17,34805,83558	17,66568	1,93700	68,71258,0976	69,54873	
30	10973,43110,91045	11040,10278	1 00607,57362	9,04034,24415,0059	9,04297,31166	18: 0
	17,34772,40860	17,66636	1,94014	68,60271,7152	69,44021	
31	10990,77883,31905	11057,76914	1 00609,51376	9,04102,84686,7211	9,04366,75187	18:36
	17,34738,92877	17,66704	1,94327	68,49319,9871	69,33204	
32	11008,12622,24782	11075,43618	1 00611,45703	9,04171,34006,7082	9,04436,08391	19:12
	17,34705,39610	17,66773	1,94642	68,38402,7490	69,22420	
33	11025,47327,64392	11093,10391	1 00613,40345	9,04239,72409,4572	9,04505,30811	19:48
	17,34671,81059	17,66841	1,94956	68,27519,8372	69,11671	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99452,18953,68273 1,82588,05802	9 51436,44542 1594,73183	9 56677,22335 1585,98117	9,99761,43489,8177 79734,5080	10,97837,97833 72,85450	60: 0
99	99450,36365,62471 1,82891,00116	9 49841,71359 1589,45313	9 55091,24218 1580,70240	9,99760,63755,3097 79868,2680	10,97765,12383 72,73516	59:24
98	99448,53474,62355 1,83193,93872	9 48252,26046 1584,20069	9 53510,53978 1575,44988	9,99759,83887,0417 80002,0329	10,97692,38867 72,61623	58:48
97	99446,70280,68483 1,83496,87070	9 46668,05977 1578,97435	9 51935,08990 1570,22345	9,99759,03885,0088 80135,8028	10,97619,77244 72,49768	58:12
96	99444,86783,81413 1,83799,79708	9 45089,08542 1573,77391	9 50364,86645 1565,02294	9,99758,23749,2060 80269,5776	10,97547,27476 72,37952	57:36
95	99443,02984,01705 1,84102,71788	9 43515,31151 1568,59923	9 48799,84351 1559,84817	9,99757,43479,6284 80403,3573	10,97474,89524 72,26178	57: 0
94	99441,18881,29917 1,84405,63306	9 41946,71228 1563,45012	9 47239,99534 1554,69898	9,99756,63076,2711 80537,1420	10,97402,63346 72,14441	56:24
93	99439,34475,66611 1,84708,54263	9 40383,26216 1558,32641	9 45685,29636 1549,57519	9,99755,82539,1291 80670,9316	10,97330,48905 72,02743	55:48
92	99437,49767,12348 1,85011,44657	9 38824,93575 1553,22794	9 44135,72117 1544,47665	9,99755,01868,1975 80804,7263	10,97258,46162 71,91085	55:12
91	99435,64755,67691 1,85314,34486	9 37271,70781 1548,15456	9 42591,24452 1539,40317	9,99754,21063,4712 80938,5259	10,97186,55077 71,79464	54:36
90	99433,79441,33205 1,85617,23753	9 35723,55325 1543,10608	9 41051,84135 1534,35462	9,99753,40124,9453 81072,3305	10,97114,75613 71,67882	54: 0
89	99431,93824,09452 1,85920,12453	9 34180,44717 1538,08235	9 39517,48673 1529,33080	9,99752,59052,6148 81206,1401	10,97043,07731 71,56339	53:24
88	99430,07903,96999 1,86223,00587	9 32642,36482 1533,08320	9 37988,15593 1524,33158	9,99751,77846,4747 81339,9547	10,96971,51392 71,44833	52:48
87	99428,21680,96412 1,86525,88154	9 31109,28162 1528,10848	9 36463,82435 1519,35677	9,99750,96506,5200 81473,7743	10,96900,06559 71,33366	52:12
86	99426,35155,08258 1,86828,75153	9 29581,17314 1523,15803	9 34944,46758 1514,40625	9,99750,15032,7457 81607,5989	10,96828,73193 71,21935	51:36
85	99424,48326,33105 1,87131,61582	9 28058,01511 1518,23169	9 33430,06133 1509,47981	9,99749,33425,1468 81741,4285	10,96757,51258 71,10542	51: 0
84	99422,61194,71523 1,87434,47441	9 26539,78342 1513,32930	9 31920,58152 1504,57735	9,99748,51683,7183 81875,2633	10,96686,40716 70,99186	50:24
83	99420,73760,24082 1,87737,32730	9 25026,45412 1508,45071	9 30416,00417 1499,69867	9,99747,69808,4550 82009,1030	10,96615,41530 70,87868	49:48
82	99418,86022,91352 1,88040,17446	9 23518,00341 1503,59577	9 28916,30550 1494,84365	9,99746,87799,3520 82142,9478	10,96544,53662 70,76587	49:12
81	99416,97982,73906 1,88343,01591	9 22014,40764 1498,76431	9 27421,46185 1490,01211	9,99746,05656,4042 82276,7976	10,96473,77075 70,65342	48:36
80	99415,09639,72315 1,88645,85160	9 20515,64333 1493,95619	9 25931,44974 1485,20391	9,99745,23379,6066 82410,6526	10,96403,11733 70,54133	48: 0
79	99413,20993,87155 1,88948,68156	9 19021,68714 1489,17128	9 24446,24583 1480,41891	9,99744,40968,9540 82544,5126	10,96332,57600 70,42961	47:24
78	99411,32045,18999 1,89251,50575	9 17532,51586 1484,40939	9 22965,82692 1475,65694	9,99743,58424,4414 82678,3777	10,96262,14639 70,31826	46:48
77	99409,42793,68424 1,89554,32419	9 16048,10647 1479,67040	9 21490,16998 1470,91787	9,99742,75746,0637 82812,2479	10,96191,82813 70,20725	46:12
76	99407,53239,36005 1,89857,13685	9 14568,43607 1474,95417	9 20019,25211 1466,20155	9,99741,92933,8158 82946,1232	10,96121,62088 70,09662	45:36
75	99405,63382,22320 1,90159,94373	9 13093,48190 1470,26053	9 18553,05056 1461,50783	9,99741,09987,6926 83080,0036	10,96051,52426 69,98634	45: 0
74	99403,73222,27947 1,90462,74481	9 11623,22137 1465,58934	9 17091,54273 1456,83656	9,99740,26907,6890 83213,8892	10,95981,53792 69,87640	44:24
73	99401,82759,53466 1,90765,54009	9 10157,63203 1460,94049	9 15634,70617 1452,18762	9,99739,43693,7998 83347,7798	10,95911,66152 69,76684	43:48
72	99399,91993,99457 1,91068,32956	9 08696,69154 1456,31379	9 14182,51855 1447,56084	9,99738,60346,0200 83481,6756	10,95841,89468 69,65761	43:12
71	99398,00925,66501 1,91371,11321	9 07240,37775 1451,70913	9 12734,95771 1442,95610	9,99737,76864,3444 83615,5766	10,95772,23707 69,54873	42:36
70	99396,09554,55180 1,91673,89104	9 05788,66862 1447,12636	9 11292,00161 1438,37324	9,99736,93248,7678 83749,4827	10,95702,68834 69,44021	42: 0
69	99394,17880,66076 1,91976,66301	9 04341,54226 1442,56535	9 09853,62837 1433,81215	9,99736,09499,2851 83883,3939	10,95633,24813 69,33204	41:24
68	99392,25903,99775 1,92279,42915	9 02898,97691 1438,02595	9 08419,81622 1429,27266	9,99735,25615,8912 84017,3104	10,95563,91609 69,22420	40:48
67	99390,33624,56860 1,92582,18943	9 01460,95096 1433,50803	9 06990,54356 1424,75466	9,99734,41598,5808 84151,2321	10,95494,69189 69,11671	40:12

GRAD. 83.

6. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	11025,47327,64392 17,34671,81059	11093,10391 17,66841	1 00613,40345 1,94956	9,04239,72409,4572 68,27519,8372	9,04505,30811 69,11671	19:48
34	11042,81999,45451 17,34638,17223	11110,77232 17,66909	1 00615,35301 1,95270	9,04307,99929,2944 68,16671,0899	9,04574,42482 69,00956	20:24
35	11060,16637,62674 17,34604,48105	11128,44141 17,66979	1 00617,30571 1,95584	9,04376,16600,3843 68,05856,3453	9,04643,43438 68,90276	21: 0
36	11077,51242,10779 17,34570,73701	11146,11120 17,67046	1 00619,26155 1,95898	9,04444,22456,7296 67,95075,4436	9,04712,33714 68,79628	21:36
37	11094,85812,84480 17,34536,94014	11163,78166 17,67116	1 00621,22053 1,96212	9,04512,17532,1732 67,84328,2252	9,04781,13342 68,69015	22:12
38	11112,20349,78494 17,34503,09043	11181,45282 17,67185	1 00623,18265 1,96527	9,04580,01860,3984 67,73614,5320	9,04849,82357 68,58436	22:48
39	11129,54852,87537 17,34469,18788	11199,12467 17,67254	1 00625,14792 1,96840	9,04647,75474,9304 67,62934,2067	9,04918,40793 68,47889	23:24
40	11146,89322,06325 17,34435,23251	11216,79721 17,67323	1 00627,11632 1,97155	9,04715,38409,1371 67,52287,0929	9,04986,88682 68,37376	24: 0
41	11164,23757,29576 17,34401,22430	11234,47044 17,67392	1 00629,08787 1,97469	9,04782,90696,2300 67,41673,0356	9,05055,26058 68,26896	24:36
42	11181,58158,52006 17,34367,16325	11252,14436 17,67462	1 00631,06256 1,97784	9,04850,32369,2656 67,31091,8800	9,05123,52954 68,16448	25:12
43	11198,92525,68331 17,34333,04938	11269,81898 17,67531	1 00633,04040 1,98098	9,04917,63461,1456 67,20543,4730	9,05191,69402 68,06034	25:48
44	11216,26858,73269 17,34298,88267	11287,49429 17,67601	1 00635,02138 1,98412	9,04984,84004,6186 67,10027,6622	9,05259,75436 67,95653	26:24
45	11233,61157,61536 17,34264,66312	11305,17030 17,67671	1 00637,00550 1,98726	9,05051,94032,2808 66,99544,2959	9,05327,71089 67,85303	27: 0
46	11250,95422,27848 17,34230,39077	11322,84701 17,67740	1 00638,99276 1,99041	9,05118,93576,5767 66,89093,2236	9,05395,56392 67,74986	27:36
47	11268,29652,66925 17,34196,06557	11340,52441 17,67811	1 00640,98317 1,99356	9,05185,82669,8003 66,78674,2959	9,05463,31378 67,64701	28:12
48	11285,63848,73482 17,34161,68755	11358,20252 17,67880	1 00642,97673 1,99670	9,05252,61344,0962 66,68287,3637	9,05530,96079 67,54448	28:48
49	11302,98010,42237 17,34127,25670	11375,88132 17,67951	1 00644,97343 1,99984	9,05319,29631,4599 66,57932,2796	9,05598,50527 67,44227	29:24
50	11320,32137,67907 17,34092,77303	11393,56083 17,68021	1 00646,97327 2,00299	9,05385,87563,7395 66,47608,8964	9,05665,94754 67,34037	30: 0
51	11337,66230,45210 17,34058,23654	11411,24104 17,68092	1 00648,97626 2,00614	9,05452,35172,6359 66,37317,0684	9,05733,28791 67,23880	30:36
52	11355,00288,68864 17,34023,64722	11428,92196 17,68162	1 00650,98240 2,00928	9,05518,72489,7043 66,27056,6503	9,05800,52671 67,13753	31:12
53	11372,34312,33586 17,33989,00508	11446,60358 17,68232	1 00652,99168 2,01242	9,05584,99546,3546 66,16827,4980	9,05867,66424 67,03659	31:48
54	11389,68301,34094 17,33954,31012	11464,28590 17,68304	1 00655,00410 2,01558	9,05651,16373,8526 66,06629,4682	9,05934,70083 66,93594	32:24
55	11407,02255,65106 17,33919,56235	11481,96894 17,68374	1 00657,01968 2,01872	9,05717,23003,3208 65,96462,4185	9,06001,63677 66,83561	33: 0
56	11424,36175,21341 17,33884,76175	11499,65268 17,68446	1 00659,03840 2,02187	9,05783,19465,7393 65,86326,2071	9,06068,47238 66,73559	33:36
57	11441,70059,97516 17,33849,90833	11517,33714 17,68516	1 00661,06027 2,02502	9,05849,05791,9464 65,76220,6935	9,06135,20797 66,63588	34:12
58	11459,03909,88349 17,33815,00211	11535,02230 17,68588	1 00663,08529 2,02816	9,05914,82012,6399 65,66145,7379	9,06201,84385 66,53647	34:48
59	11476,37724,88560 17,33780,04307	11552,70818 17,68659	1 00665,11345 2,03131	9,05980,48158,3778 65,56101,2012	9,06268,38032 66,43736	35:24
60	11493,71504,92867 17,33745,03120	11570,39477 17,68730	1 00667,14476 2,03447	9,06046,04259,5790 65,46086,9451	9,06334,81768 66,33856	36: 0
61	11511,05249,95987 17,33709,96654	11588,08207 17,68802	1 00669,17923 2,03761	9,06111,50346,5241 65,36102,8325	9,06401,15624 66,24006	36:36
62	11528,38959,92641 17,33674,84905	11605,77009 17,68874	1 00671,21684 2,04076	9,06176,86449,3566 65,26148,7267	9,06467,39630 66,14186	37:12
63	11545,72634,77546 17,33639,67876	11623,45883 17,68945	1 00673,25760 2,04391	9,06242,12598,0833 65,16224,4922	9,06533,53816 66,04396	37:48
64	11563,06274,45422 17,33604,45565	11641,14828 17,69017	1 00675,30151 2,04706	9,06307,28822,5755 65,06329,9940	9,06599,58212 65,94635	38:24
65	11580,39878,90987 17,33569,17974	11658,83845 17,69090	1 00677,34857 2,05020	9,06372,35152,5695 64,96465,0982	9,06665,52847 65,84905	39: 0
66	11597,73448,08961 17,33533,85103	11676,52935 17,69161	1 00679,39877 2,05336	9,06437,31617,6677 64,86629,6714	9,06731,37752 65,75203	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99390,33624,56860 1,92582,18943	9 01460,95096 1433,50803	9 06990,54356 1424,75466	9,99734,41598,5808 84151,2321	10,95494,69189 69,11671	40:12
66	99388,41042,37917 1,92884,94383	9 00027,44293 1429,01147	9 05565,78890 1420,25801	9,99733,57447,3487 84285,1588	10,95425,57518 69,00956	39:36
65	99386,48157,43534 1,93187,69237	8 98598,43146 1424,53610	9 04145,53089 1415,78256	9,99732,73162,1899 84419,0909	10,95356,56562 68,90276	39: 0
64	99384,54969,74297 1,93490,43503	8 97173,89536 1420,08181	9 02729,74833 1411,32819	9,99731,88743,0990 84553,0281	10,95287,66286 68,79628	38:24
63	99382,61479,30794 1,93793,17177	8 95753,81355 1415,64848	9 01318,42014 1406,89477	9,99731,04190,0709 84686,9706	10,95218,86658 68,69015	37:48
62	99380,67686,13617 1,94095,90263	8 94338,16507 1411,23595	8 99911,52537 1402,48215	9,99730,19503,1003 84820,9182	10,95150,17643 68,58436	37:12
61	99378,73590,23354 1,94398,62758	8 92926,92912 1406,84411	8 98509,04322 1398,09023	9,99729,34682,1821 84954,8711	10,95081,59207 68,47889	36:36
60	99376,79191,60596 1,94701,34659	8 91520,08501 1402,47283	8 97110,95299 1393,71886	9,99728,49727,3110 85088,8293	10,95013,11318 68,37376	36: 0
59	99374,84490,25937 1,95004,05967	8 90117,61218 1398,12196	8 95717,23413 1389,36792	9,99727,64638,4817 85222,7926	10,94944,73942 68,26896	35:24
58	99372,89486,19970 1,95306,76683	8 88719,49022 1393,79141	8 94327,86621 1385,03726	9,99726,79415,6891 85356,7613	10,94876,47046 68,16448	34:48
57	99370,94179,43287 1,95609,46802	8 87325,69881 1389,48102	8 92942,82895 1380,72680	9,99725,94058,9278 85490,7352	10,94808,30598 68,06034	34:12
56	99368,98569,96485 1,95912,16326	8 85936,21779 1385,19068	8 91562,10215 1376,43637	9,99725,08568,1926 85624,7144	10,94740,24564 67,95653	33:36
55	99367,02657,80159 1,96214,85254	8 84551,02711 1380,92027	8 90185,66578 1372,16588	9,99724,22943,4782 85758,6988	10,94672,28911 67,85303	33: 0
54	99365,06442,94905 1,96517,53583	8 83170,10684 1376,66966	8 88813,49990 1367,91517	9,99723,37184,7794 85892,6887	10,94604,43608 67,74986	32:24
53	99363,09925,41322 1,96820,21314	8 81793,43718 1372,43873	8 87445,58473 1363,68416	9,99722,51292,0907 86026,6836	10,94536,68622 67,64701	31:48
52	99361,13105,20008 1,97122,88445	8 80420,99845 1368,22735	8 86081,90057 1359,47270	9,99721,65265,4071 86160,6841	10,94469,03921 67,54448	31:12
51	99359,15982,31563 1,97425,54976	8 79052,77110 1364,03541	8 84722,42787 1355,28067	9,99720,79104,7230 86294,6897	10,94401,49473 67,44227	30:36
50	99357,18556,76587 1,97728,20905	8 77688,73569 1359,86280	8 83367,14720 1351,10797	9,99719,92810,0333 86428,7008	10,94334,05246 67,34037	30: 0
49	99355,20828,55682 1,98030,86232	8 76328,87289 1355,70937	8 82016,03923 1346,95446	9,99719,06381,3325 86562,7170	10,94266,71209 67,23880	29:24
48	99353,22797,69450 1,98333,50956	8 74973,16352 1351,57504	8 80669,08477 1342,82003	9,99718,19818,6155 86696,7388	10,94199,47329 67,13753	28:48
47	99351,24464,18494 1,98636,15076	8 73621,58848 1347,45966	8 79326,26474 1338,70457	9,99717,33121,8767 86830,7658	10,94132,33576 67,03659	28:12
46	99349,25828,03418 1,98938,78591	8 72274,12882 1343,36314	8 77987,56017 1334,60797	9,99716,46291,1109 86964,7982	10,94065,29917 66,93594	27:36
45	99347,26889,24827 1,99241,41499	8 70930,76568 1339,28535	8 76652,95220 1330,53008	9,99715,59326,3127 87098,8360	10,93998,36323 66,83561	27: 0
44	99345,27647,83328 1,99544,03801	8 69591,48033 1335,22618	8 75322,42212 1326,47083	9,99714,72227,4767 87232,8792	10,93931,52762 66,73559	26:24
43	99343,28103,79527 1,99846,65495	8 68256,25415 1331,18552	8 73995,95129 1322,43009	9,99713,84994,5975 87366,9276	10,93864,79203 66,63588	25:48
42	99341,28257,14032 2,00149,26580	8 66925,06863 1327,16326	8 72673,52120 1318,40772	9,99712,97627,6699 87500,9816	10,93798,15615 66,53647	25:12
41	99339,28107,87452 2,00451,87056	8 65597,90537 1323,15927	8 71355,11348 1314,40366	9,99712,10126,6883 87635,0409	10,93731,61968 66,43736	24:36
40	99337,27656,00396 2,00754,46920	8 64274,74610 1319,17346	8 70040,70982 1310,41775	9,99711,22491,6474 87769,1056	10,93665,18232 66,33856	24: 0
39	99335,26901,53476 2,01057,06173	8 62955,57264 1315,20571	8 68730,29207 1306,44992	9,99710,34722,5418 87903,1758	10,93598,84376 66,24006	23:24
38	99333,25844,47303 2,01359,64814	8 61640,36693 1311,25591	8 67423,84215 1302,50004	9,99709,46819,3660 88037,2514	10,93532,60370 66,14186	22:48
37	99331,24484,82489 2,01662,22842	8 60329,11102 1307,32397	8 66121,34211 1298,56800	9,99708,58782,1146 88171,3324	10,93466,46184 66,04396	22:12
36	99329,22822,59647 2,01964,80255	8 59021,78705 1303,40976	8 64822,77411 1294,65370	9,99707,70610,7822 88305,4188	10,93400,41788 65,94635	21:36
35	99327,20857,79392 2,02267,37053	8 57718,37729 1299,51318	8 63528,12041 1290,75703	9,99706,82305,3634 88439,5107	10,93334,47153 65,84905	21: 0
34	99325,18590,42339 2,02569,93234	8 56418,86411 1295,63412	8 62237,36338 1286,87789	9,99705,93865,8527 88573,6082	10,93268,62248 65,75203	20:24

GRAD. 83.

6. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	11615,06981,94064	11694,22096	1 00681,45213	9,06502,18247,3391	9,06797,12955	40:12
	17,33498,46949	17,69234	2,05651	64,76823,5812	65,65531	
68	11632,40480,41013	11711,91330	1 00683,50864	9,06566,95070,9203	9,06862,78486	40:48
	17,33463,03517	17,69306	2,05967	64,67046,6960	65,55889	
69	11649,73943,44530	11729,60636	1 00685,56831	9,06631,62117,6163	9,06928,34375	41:24
	17,33427,54803	17,69378	2,06281	64,57298,8849	65,46275	
70	11667,07370,99333	11747,30014	1 00687,63112	9,06696,19416,5012	9,06993,80650	42: 0
	17,33392,00809	17,69451	2,06597	64,47580,0177	65,36690	
71	11684,40763,00142	11764,99465	1 00689,69709	9,06760,66996,5189	9,07059,17340	42:36
	17,33356,41535	17,69523	2,06911	64,37889,9653	65,27134	
72	11701,74119,41677	11782,68988	1 00691,76620	9,06825,04886,4842	9,07124,44474	43:12
	17,33320,76981	17,69597	2,07227	64,28228,5990	65,17607	
73	11719,07440,18658	11800,38585	1 00693,83847	9,06889,33115,0832	9,07189,62081	43:48
	17,33285,07147	17,69669	2,07542	64,18595,7910	65,08108	
74	11736,40725,25805	11818,08254	1 00695,91389	9,06953,51710,8742	9,07254,70189	44:24
	17,33249,32033	17,69742	2,07858	64,08991,4145	64,98638	
75	11753,73974,57838	11835,77996	1 00697,99247	9,07017,60702,2887	9,07319,68827	45: 0
	17,33213,51638	17,69816	2,08173	63,99415,3430	64,89196	
76	11771,07188,09476	11853,47812	1 00700,07420	9,07081,60117,6317	9,07384,58023	45:36
	17,33177,65966	17,69888	2,08488	63,89867,4510	64,79782	
77	11788,40365,75442	11871,17700	1 00702,15908	9,07145,49985,0827	9,07449,37805	46:12
	17,33141,75012	17,69962	2,08804	63,80347,6138	64,70397	
78	11805,73507,50454	11888,87662	1 00704,24712	9,07209,30332,6965	9,07514,08202	46:48
	17,33105,78779	17,70036	2,09119	63,70855,7074	64,61039	
79	11823,06613,29233	11906,57698	1 00706,33831	9,07273,01188,4039	9,07578,69241	47:24
	17,33069,77268	17,70109	2,09434	63,61391,6083	64,51709	
80	11840,39683,06501	11924,27807	1 00708,43265	9,07336,62580,0122	9,07643,20950	48: 0
	17,33033,70476	17,70182	2,09750	63,51955,1941	64,42407	
81	11857,72716,76977	11941,97989	1 00710,53015	9,07400,14535,2063	9,07707,63357	48:36
	17,32997,58407	17,70257	2,10066	63,42546,3427	64,33132	
82	11875,05714,35384	11959,68246	1 00712,63081	9,07463,57081,5490	9,07771,96489	49:12
	17,32961,41057	17,70330	2,10381	63,33164,9332	64,23885	
83	11892,38675,76441	11977,38576	1 00714,73462	9,07526,90246,4822	9,07836,20374	49:48
	17,32925,18429	17,70405	2,10697	63,23810,8450	64,14665	
84	11909,71600,94870	11995,08981	1 00716,84159	9,07590,14057,3272	9,07900,35039	50:24
	17,32888,90522	17,70478	2,11012	63,14483,9584	64,05472	
85	11927,04489,85392	12012,79459	1 00718,95171	9,07653,28541,2856	9,07964,40511	51: 0
	17,32852,57336	17,70553	2,11328	63,05184,1543	63,96307	
86	11944,37342,42728	12030,50012	1 00721,06499	9,07716,33725,4399	9,08028,36818	51:36
	17,32816,18872	17,70627	2,11644	62,95911,3145	63,87168	
87	11961,70158,61600	12048,20639	1 00723,18143	9,07779,29636,7544	9,08092,23986	52:12
	17,32779,75130	17,70702	2,11959	62,86665,3210	63,78056	
88	11979,02938,36730	12065,91341	1 00725,30102	9,07842,16302,0754	9,08156,02042	52:48
	17,32743,26108	17,70776	2,12276	62,77446,0573	63,68971	
89	11996,35681,62838	12083,62117	1 00727,42378	9,07904,93748,1327	9,08219,71013	53:24
	17,32706,71809	17,70851	2,12591	62,68253,4067	63,59913	
90	12013,68388,34647	12101,32968	1 00729,54969	9,07967,62001,5394	9,08283,30926	54: 0
	17,32670,12232	17,70925	2,12906	62,59087,2538	63,50881	
91	12031,01058,46879	12119,03893	1 00731,67875	9,08030,21088,7932	9,08346,81807	54:36
	17,32633,47376	17,71001	2,13223	62,49947,4834	63,41875	
92	12048,33691,94255	12136,74894	1 00733,81098	9,08092,71036,2766	9,08410,23682	55:12
	17,32596,77243	17,71075	2,13539	62,40833,9815	63,32896	
93	12065,66288,71498	12154,45969	1 00735,94637	9,08155,11870,2581	9,08473,56578	55:48
	17,32560,01832	17,71151	2,13854	62,31746,6343	63,23943	
94	12082,98848,73330	12172,17120	1 00738,08491	9,08217,43616,8924	9,08536,80521	56:24
	17,32523,21144	17,71226	2,14171	62,22685,3288	63,15016	
95	12100,31371,94474	12189,88346	1 00740,22662	9,08279,66302,2212	9,08599,95537	57: 0
	17,32486,35177	17,71302	2,14486	62,13649,9528	63,06115	
96	12117,63858,29651	12207,59648	1 00742,37148	9,08341,79952,1740	9,08663,01652	57:36
	17,32449,43933	17,71376	2,14803	62,04640,3944	62,97239	
97	12134,96307,73584	12225,31024	1 00744,51951	9,08403,84592,5684	9,08725,98891	58:12
	17,32412,47412	17,71453	2,15118	61,95656,5427	62,88390	
98	12152,28720,20996	12243,02477	1 00746,67069	9,08465,80249,1111	9,08788,87281	58:48
	17,32375,45613	17,71528	2,15435	61,86698,2873	62,79566	
99	12169,61095,66609	12260,74005	1 00748,82504	9,08527,66947,3984	9,08851,66847	59:24
	17,32338,38538	17,71604	2,15751	61,77765,5184	62,70768	
100	12186,93434,05147	12278,45609	1 00750,98255	9,08589,44712,9168	9,08914,37615	60: 0
	17,32301,26186	17,71680	2,16067	61,68858,1268	62,61994	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99323,16020,49105 2,02872,48799	8 55123,22999 1291,77250	8 60950,48549 1283,01617	9,99705,05292,2445 88707,7110	10,93202,87045 65,65531	19:48
32	99321,13148,00306 2,03175,03746	8 53831,45749 1287,92818	8 59667,46932 1279,17177	9,99704,16584,5335 88841,8193	10,93137,21514 65,55889	19:12
31	99319,09972,96560 2,03477,58074	8 52543,52931 1284,10108	8 58388,29755 1275,34458	9,99703,27742,7142 88975,9331	10,93071,65625 65,46275	18:36
30	99317,06495,38486 2,03780,11782	8 51259,42823 1280,29110	8 57112,95297 1271,53450	9,99702,38766,7811 89110,0524	10,93006,19350 65,36690	18: 0
29	99315,02715,26704 2,04082,64869	8 49979,13713 1276,49811	8 55841,41847 1267,74144	9,99701,49656,7287 89244,1772	10,92940,82660 65,27134	17:24
28	99312,98632,61835 2,04385,17334	8 48702,63902 1272,72204	8 54573,67703 1263,96527	9,99700,60412,5515 89378,3075	10,92875,55526 65,17607	16:48
27	99310,94247,44501 2,04687,69178	8 47429,91698 1268,96278	8 53309,71176 1260,20591	9,99699,71034,2440 89512,4434	10,92810,37919 65,08108	16:12
26	99308,89559,75323 2,04990,20397	8 46160,95420 1265,22022	8 52049,50585 1256,46327	9,99698,81521,8006 89646,5848	10,92745,29811 64,98638	15:36
25	99306,84569,54926 2,05292,70992	8 44895,73398 1261,49427	8 50793,04258 1252,73723	9,99697,91875,2158 89780,7317	10,92680,31173 64,89196	15: 0
24	99304,79276,83934 2,05595,20961	8 43634,23971 1257,78484	8 49540,30535 1249,02771	9,99697,02094,4841 89914,8841	10,92615,41977 64,79782	14:24
23	99302,73681,62973 2,05897,70305	8 42376,45487 1254,09181	8 48291,27764 1245,33459	9,99696,12179,6000 90049,0421	10,92550,62195 64,70397	13:48
22	99300,67783,92668 2,06200,19022	8 41122,36306 1250,41512	8 47045,94305 1241,65780	9,99695,22130,5579 90183,2057	10,92485,91798 64,61039	13:12
21	99298,61583,73646 2,06502,67109	8 39871,94794 1246,75462	8 45804,28525 1237,99723	9,99694,31947,3522 90317,3749	10,92421,30759 64,51709	12:36
20	99296,55081,06537 2,06805,14568	8 38625,19332 1243,11027	8 44566,28802 1234,35277	9,99693,41629,9773 90451,5496	10,92356,79050 64,42407	12: 0
19	99294,48275,91969 2,07107,61398	8 37382,08305 1239,48194	8 43331,93525 1230,72436	9,99692,51178,4277 90585,7299	10,92292,36643 64,33132	11:24
18	99292,41168,30571 2,07410,07595	8 36142,60111 1235,86955	8 42101,21089 1227,11187	9,99691,60592,6978 90719,9158	10,92228,03511 64,23885	10:48
17	99290,33758,22976 2,07712,53162	8 34906,73156 1232,27301	8 40874,09902 1223,51524	9,99690,69872,7820 90854,1073	10,92163,79626 64,14665	10:12
16	99288,26045,69814 2,08014,98096	8 33674,45855 1228,69221	8 39650,58378 1219,93436	9,99689,79018,6747 90988,3045	10,92099,64961 64,05472	9:36
15	99286,18030,71718 2,08317,42396	8 32445,76634 1225,12708	8 38430,64942 1216,36912	9,99688,88030,3702 91122,5072	10,92035,59489 63,96307	9: 0
14	99284,09713,29322 2,08619,86061	8 31220,63926 1221,57751	8 37214,28030 1212,81947	9,99687,96907,8630 91256,7157	10,91971,63182 63,87168	8:24
13	99282,01093,43261 2,08922,29090	8 29999,06175 1218,04343	8 36001,46083 1209,28529	9,99687,05651,1473 91390,9296	10,91907,76014 63,78056	7:48
12	99279,92171,14171 2,09224,71485	8 28781,01832 1214,52472	8 34792,17554 1205,76650	9,99686,14260,2177 91525,1494	10,91843,97958 63,68971	7:12
11	99277,82946,42686 2,09527,13240	8 27566,49360 1211,02132	8 33586,40904 1202,26301	9,99685,22735,0683 91659,3746	10,91780,28987 63,59913	6:36
10	99275,73419,29446 2,09829,54359	8 26355,47228 1207,53314	8 32384,14603 1198,77473	9,99684,31075,6937 91793,6057	10,91716,69074 63,50881	6: 0
9	99273,63589,75087 2,10131,94837	8 25147,93914 1204,06006	8 31185,37130 1195,30156	9,99683,39282,0880 91927,8423	10,91653,18193 63,41875	5:24
8	99271,53457,80250 2,10434,34676	8 23943,87908 1200,60204	8 29990,06974 1191,84344	9,99682,47354,2457 92062,0848	10,91589,76318 63,32896	4:48
7	99269,43023,45574 2,10736,73874	8 22743,27704 1197,15895	8 28798,22630 1188,40026	9,99681,55292,1609 92196,3327	10,91526,43422 63,23943	4:12
6	99267,32286,71700 2,11039,12429	8 21546,11809 1193,73073	8 27609,82604 1184,97195	9,99680,63095,8282 92330,5865	10,91463,19479 63,15016	3:36
5	99265,21247,59271 2,11341,50342	8 20352,38736 1190,31728	8 26424,85409 1181,55842	9,99679,70765,2417 92464,8460	10,91400,04463 63,06115	3: 0
4	99263,09906,08929 2,11643,87611	8 19162,07008 1186,91853	8 25243,29567 1178,15956	9,99678,78300,3957 92599,1111	10,91336,98348 62,97239	2:24
3	99260,98262,21318 2,11946,24236	8 17975,15155 1183,53439	8 24065,13611 1174,77533	9,99677,85701,2846 92733,3821	10,91274,01109 62,88390	1:48
2	99258,86315,97082 2,12248,60214	8 16791,61716 1180,16477	8 22890,36078 1171,40562	9,99676,92967,9025 92867,6587	10,91211,12719 62,79566	1:12
1	99256,74067,36868 2,12550,95546	8 15611,45239 1176,80959	8 21718,95516 1168,05035	9,99676,00100,2438 93001,9411	10,91148,33153 62,70768	0:36
0	99254,61516,41322 2,12853,30231	8 14434,64280 1173,46878	8 20550,90481 1164,70943	9,99675,07098,3027 93136,2292	10,91085,62385 62,61994	0: 0

GRAD. 83.

7. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	12186,93434,05147 17,32301,26186	12278,45609 17,71680	1 00750,98255 2,16067	9,08589,44712,9168 61,68858,1268	9,08914,37615 62,61994	0: 0
1	12204,25735,31333 17,32264,08556	12296,17289 17,71756	1 00753,14322 2,16383	9,08651,13571,0436 61,59976,0041	9,08976,99609 62,53246	0:36
2	12221,57999,39889 17,32226,85651	12313,89045 17,71832	1 00755,30705 2,16699	9,08712,73547,0477 61,51119,0422	9,09039,52855 62,44524	1:12
3	12238,90226,25540 17,32189,57467	12331,60877 17,71908	1 00757,47404 2,17016	9,08774,24666,0899 61,42287,1338	9,09101,97379 62,35827	1:48
4	12256,22415,83007 17,32152,24008	12349,32785 17,71985	1 00759,64420 2,17331	9,08835,66953,2237 61,33480,1726	9,09164,33206 62,27153	2:24
5	12273,54568,07015 17,32114,85272	12367,04770 17,72061	1 00761,81751 2,17649	9,08897,00433,3963 61,24698,0519	9,09226,60359 62,18506	3: 0
6	12290,86682,92287 17,32077,41260	12384,76831 17,72138	1 00763,99400 2,17964	9,08958,25131,4482 61,15940,6667	9,09288,78865 62,09883	3:36
7	12308,18760,33547 17,32039,91972	12402,48969 17,72215	1 00766,17364 2,18281	9,09019,41072,1149 61,07207,9120	9,09350,88748 62,01284	4:12
8	12325,50800,25519 17,32002,37407	12420,21184 17,72291	1 00768,35645 2,18598	9,09080,48280,0269 60,98499,6834	9,09412,90032 61,92711	4:48
9	12342,82802,62926 17,31964,77567	12437,93475 17,72369	1 00770,54243 2,18914	9,09141,46779,7103 60,89815,8772	9,09474,82743 61,84160	5:24
10	12360,14767,40493 17,31927,12450	12455,65844 17,72445	1 00772,73157 2,19230	9,09202,36595,5875 60,81156,3904	9,09536,66903 61,75636	6: 0
11	12377,46694,52943 17,31889,42059	12473,38289 17,72523	1 00774,92387 2,19547	9,09263,17751,9779 60,72521,1203	9,09598,42539 61,67135	6:36
12	12394,78583,95002 17,31851,66391	12491,10812 17,72600	1 00777,11934 2,19863	9,09323,90273,0982 60,63909,9652	9,09660,09674 61,58658	7:12
13	12412,10435,61393 17,31813,85447	12508,83412 17,72677	1 00779,31797 2,20180	9,09384,54183,0634 60,55322,8233	9,09721,68332 61,50206	7:48
14	12429,42249,46840 17,31775,99229	12526,56089 17,72755	1 00781,51977 2,20497	9,09445,09505,8867 60,46759,5941	9,09783,18538 61,41776	8:24
15	12446,74025,46069 17,31738,07735	12544,28844 17,72832	1 00783,72474 2,20813	9,09505,56265,4808 60,38220,1772	9,09844,60314 61,33372	9: 0
16	12464,05763,53804 17,31700,10966	12562,01676 17,72910	1 00785,93287 2,21130	9,09565,94485,6580 60,29704,4729	9,09905,93686 61,24990	9:36
17	12481,37463,64770 17,31662,08922	12579,74586 17,72988	1 00788,14417 2,21447	9,09626,24190,1309 60,21212,3822	9,09967,18676 61,16632	10:12
18	12498,69125,73692 17,31624,01603	12597,47574 17,73066	1 00790,35864 2,21764	9,09686,45402,5131 60,12743,8062	9,10028,35308 61,08298	10:48
19	12516,00749,75295 17,31585,89009	12615,20640 17,73144	1 00792,57628 2,22080	9,09746,58146,3193 60,04298,6472	9,10089,43606 60,99988	11:24
20	12533,32335,64304 17,31547,71141	12632,93784 17,73223	1 00794,79708 2,22397	9,09806,62444,9665 59,95876,8074	9,10150,43594 60,91700	12: 0
21	12550,63883,35445 17,31509,47997	12650,67007 17,73300	1 00797,02105 2,22714	9,09866,58321,7739 59,87478,1899	9,10211,35294 60,83436	12:36
22	12567,95392,83442 17,31471,19579	12668,40307 17,73379	1 00799,24819 2,23031	9,09926,45799,9638 59,79102,6986	9,10272,18730 60,75194	13:12
23	12585,26864,03021 17,31432,85888	12686,13686 17,73458	1 00801,47850 2,23348	9,09986,24902,6624 59,70750,2370	9,10332,93924 60,66977	13:48
24	12602,58296,88909 17,31394,46921	12703,87144 17,73536	1 00803,71198 2,23665	9,10045,95652,8994 59,62420,7103	9,10393,60901 60,58782	14:24
25	12619,89691,35830 17,31356,02680	12721,60680 17,73615	1 00805,94863 2,23982	9,10105,58073,6097 59,54114,0234	9,10454,19683 60,50609	15: 0
26	12637,21047,38510 17,31317,53167	12739,34295 17,73694	1 00808,18845 2,24299	9,10165,12187,6331 59,45830,0820	9,10514,70292 60,42460	15:36
27	12654,52364,91677 17,31278,98378	12757,07989 17,73773	1 00810,43144 2,24616	9,10224,58017,7151 59,37568,7923	9,10575,12752 60,34333	16:12
28	12671,83643,90055 17,31240,38315	12774,81762 17,73851	1 00812,67760 2,24933	9,10283,95586,5074 59,29330,0610	9,10635,47085 60,26229	16:48
29	12689,14884,28370 17,31201,72980	12792,55613 17,73932	1 00814,92693 2,25251	9,10343,24916,5684 59,21113,7954	9,10695,73314 60,18146	17:24
30	12706,46086,01350 17,31163,02371	12810,29545 17,74010	1 00817,17944 2,25567	9,10402,46030,3638 59,12919,9032	9,10755,91460 60,10088	18: 0
31	12723,77249,03721 17,31124,26488	12828,03555 17,74090	1 00819,43511 2,25885	9,10461,58950,2670 59,04748,2927	9,10816,01548 60,02050	18:36
32	12741,08373,30209 17,31085,45332	12845,77645 17,74169	1 00821,69396 2,26202	9,10520,63698,5597 58,96598,8725	9,10876,03598 59,94036	19:12
33	12758,39458,75541 17,31046,58903	12863,51814 17,74249	1 00823,95598 2,26519	9,10579,60297,4322 58,88471,5520	9,10935,97634 59,86042	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99254,61516,41322 2,12853,30231	8 14434,64280 1173,46878	8 20550,90481 1164,70943	9,99675,07098,3027 93136,2292	10,91085,62385 62,61994	60: 0
99	99252,48663,11091 2,13155,64267	8 13261,17402 1170,14223	8 19386,19538 1161,38280	9,99674,13962,0735 93270,5230	10,91023,00391 62,53246	59:24
98	99250,35507,46824 2,13457,97655	8 12091,03179 1166,82988	8 18224,81258 1158,07036	9,99673,20691,5505 93404,8228	10,90960,47145 62,44524	58:48
97	99248,22049,49169 2,13760,30391	8 10924,20191 1163,53166	8 17066,74222 1154,77204	9,99672,27286,7277 93539,1282	10,90898,02621 62,35827	58:12
96	99246,08289,18778 2,14062,62476	8 09760,67025 1160,24746	8 15911,97018 1151,48774	9,99671,33747,5995 93673,4394	10,90835,66794 62,27153	57:36
95	99243,94226,56302 2,14364,93911	8 08600,42279 1156,97722	8 14760,48244 1148,21742	9,99670,40074,1601 93807,7564	10,90773,39641 62,18506	57: 0
94	99241,79861,62391 2,14667,24690	8 07443,44557 1153,72086	8 13612,26502 1144,96096	9,99669,46266,4037 93942,0792	10,90711,21135 62,09883	56:24
93	99239,65194,37701 2,14969,54818	8 06289,72471 1150,47830	8 12467,30406 1141,71830	9,99668,52324,3245 94076,4079	10,90649,11252 62,01284	55:48
92	99237,50224,82883 2,15271,84289	8 05139,24641 1147,24945	8 11325,58576 1138,48936	9,99667,58247,9166 94210,7423	10,90587,09968 61,92711	55:12
91	99235,34952,98594 2,15574,13105	8 03991,99696 1144,03425	8 10187,09640 1135,27407	9,99666,64037,1743 94345,0826	10,90525,17257 61,84160	54:36
90	99233,19378,85489 2,15876,41265	8 02847,96271 1140,83262	8 09051,82233 1132,07234	9,99665,69692,0917 94479,4287	10,90463,33097 61,75636	54: 0
89	99231,03502,44224 2,16178,68766	8 01707,13009 1137,64448	8 07919,74999 1128,88410	9,99664,75212,6630 94613,7807	10,90401,57461 61,67135	53:24
88	99228,87323,75458 2,16480,95610	8 00569,48561 1134,46975	8 06790,86589 1125,70928	9,99663,80598,8823 94748,1385	10,90339,90326 61,58658	52:48
87	99226,70842,79848 2,16783,21794	7 99435,01586 1131,30836	8 05665,15661 1122,54779	9,99662,85850,7438 94882,5022	10,90278,31668 61,50206	52:12
86	99224,54059,58054 2,17085,47317	7 98303,70750 1128,16024	8 04542,60882 1119,39957	9,99661,90968,2416 95016,8717	10,90216,81462 61,41776	51:36
85	99222,36974,10737 2,17387,72179	7 97175,54726 1125,02530	8 03423,20925 1116,26455	9,99660,95951,3699 95151,2471	10,90155,39686 61,33372	51: 0
84	99220,19586,38558 2,17689,96379	7 96050,52196 1121,90349	8 02306,94470 1113,14263	9,99660,00800,1228 95285,6285	10,90094,06314 61,24990	50:24
83	99218,01896,42179 2,17992,19916	7 94928,61847 1118,79471	8 01193,80207 1110,03377	9,99659,05514,4943 95420,0156	10,90032,81324 61,16632	49:48
82	99215,83904,22263 2,18294,42789	7 93809,82376 1115,69892	8 00083,76830 1106,93787	9,99658,10094,4787 95554,4088	10,89971,64692 61,08298	49:12
81	99213,65609,79474 2,18596,64996	7 92694,12484 1112,61601	7 98976,83043 1103,85487	9,99657,14540,0699 95688,8078	10,89910,56394 60,99988	48:36
80	99211,47013,14478 2,18898,86539	7 91581,50883 1109,54594	7 97872,97556 1100,78471	9,99656,18851,2621 95823,2128	10,89849,56406 60,91700	48: 0
79	99209,28114,27939 2,19201,07414	7 90471,96289 1106,48862	7 96772,19085 1097,72729	9,99655,23028,0493 95957,6236	10,89788,64706 60,83436	47:24
78	99207,08913,20525 2,19503,27621	7 89365,47427 1103,44400	7 95674,46356 1094,68256	9,99654,27070,4257 96092,0405	10,89727,81270 60,75194	46:48
77	99204,89409,92904 2,19805,47160	7 88262,03027 1100,41198	7 94579,78100 1091,65046	9,99653,30978,3852 96226,4633	10,89667,06076 60,66977	46:12
76	99202,69604,45744 2,20107,66029	7 87161,61829 1097,39251	7 93488,13054 1088,63089	9,99652,34751,9219 96360,8920	10,89606,39099 60,58782	45:36
75	99200,49496,79715 2,20409,84228	7 86064,22578 1094,38552	7 92399,49965 1085,62380	9,99651,38391,0299 96495,3266	10,89545,80317 60,50609	45: 0
74	99198,29086,95487 2,20712,01755	7 84969,84026 1091,39094	7 91313,87585 1082,62912	9,99650,41895,7033 96629,7674	10,89485,29708 60,42460	44:24
73	99196,08374,93732 2,21014,18611	7 83878,44932 1088,40871	7 90231,24673 1079,64679	9,99649,45265,9359 96764,2140	10,89424,87248 60,34333	43:48
72	99193,87360,75121 2,21316,34792	7 82790,04061 1085,43873	7 89151,59994 1076,67672	9,99648,48501,7219 96898,6667	10,89364,52915 60,26229	43:12
71	99191,66044,40329 2,21618,50299	7 81704,60188 1082,48097	7 88074,92322 1073,71887	9,99647,51603,0552 97033,1252	10,89304,26686 60,18146	42:36
70	99189,44425,90030 2,21920,65133	7 80622,12091 1079,53535	7 87001,20435 1070,77314	9,99646,54569,9300 97167,5900	10,89244,08540 60,10088	42: 0
69	99187,22505,24897 2,22222,79288	7 79542,58556 1076,60180	7 85930,43121 1067,83949	9,99645,57402,3400 97302,0606	10,89183,98452 60,02050	41:24
68	99185,00282,45609 2,22524,92768	7 78465,98376 1073,68025	7 84862,59172 1064,91785	9,99644,60100,2794 97436,5373	10,89123,96402 59,94036	40:48
67	99182,77757,52841 2,22827,05570	7 77392,30351 1070,77065	7 83797,67387 1062,00815	9,99643,62663,7421 97571,0201	10,89064,02366 59,86042	40:12

GRAD. 82.

7. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	12758,39458,75541	12863,51814	1 00823,95598	9,10579,60297,4322	9,10935,97634	19:48
	17,31046,58903	17,74249	2,26519	58,88471,5520	59,86042	
34	12775,70505,34444	12881,26063	1 00826,22117	9,10638,48768,9842	9,10995,83676	20:24
	17,31007,67200	17,74329	2,26837	58,80366,2407	59,78072	
35	12793,01513,01644	12899,00392	1 00828,48954	9,10697,29135,2249	9,11055,61748	21: 0
	17,30968,70225	17,74409	2,27154	58,72282,8492	59,70123	
36	12810,32481,71869	12916,74801	1 00830,76108	9,10756,01418,0741	9,11115,31871	21:36
	17,30929,67978	17,74489	2,27471	58,64221,2878	59,62196	
37	12827,63411,39847	12934,49290	1 00833,03579	9,10814,65639,3619	9,11174,94067	22:12
	17,30890,60456	17,74569	2,27789	58,56181,4680	59,54290	
38	12844,94302,00303	12952,23859	1 00835,31368	9,10873,21820,8299	9,11234,48357	22:48
	17,30851,47663	17,74649	2,28106	58,48163,3014	59,46407	
39	12862,25153,47966	12969,98508	1 00837,59474	9,10931,69984,1313	9,11293,94764	23:24
	17,30812,29597	17,74729	2,28424	58,40166,7000	59,38545	
40	12879,55965,77563	12987,73237	1 00839,87898	9,10990,10150,8313	9,11353,33309	24: 0
	17,30773,06259	17,74810	2,28741	58,32191,5767	59,30704	
41	12896,86738,83822	13005,48047	1 00842,16639	9,11048,42342,4080	9,11412,64013	24:36
	17,30733,77648	17,74891	2,29059	58,24237,8443	59,22885	
42	12914,17472,61470	13023,22938	1 00844,45698	9,11106,66580,2523	9,11471,86898	25:12
	17,30694,43766	17,74971	2,29376	58,16305,4166	59,15087	
43	12931,48167,05236	13040,97909	1 00846,75074	9,11164,82885,6689	9,11531,01985	25:48
	17,30655,04611	17,75052	2,29694	58,08394,2076	59,07310	
44	12948,78822,09847	13058,72961	1 00849,04768	9,11222,91279,8765	9,11590,09295	26:24
	17,30615,60185	17,75133	2,30012	58,00504,1316	58,99555	
45	12966,09437,70032	13076,48094	1 00851,34780	9,11280,91784,0081	9,11649,08850	27: 0
	17,30576,10486	17,75214	2,30330	57,92635,1039	58,91820	
46	12983,40013,80518	13094,23308	1 00853,65110	9,11338,84419,1120	9,11708,00670	27:36
	17,30536,55517	17,75295	2,30647	57,84787,0397	58,84107	
47	13000,70550,36035	13111,98603	1 00855,95757	9,11396,69206,1517	9,11766,84777	28:12
	17,30496,95275	17,75376	2,30965	57,76959,8547	58,76415	
48	13018,01047,31310	13129,73979	1 00858,26722	9,11454,46166,0064	9,11825,61192	28:48
	17,30457,29763	17,75458	2,31283	57,69153,4656	58,68742	
49	13035,31504,61073	13147,49437	1 00860,58005	9,11512,15319,4720	9,11884,29934	29:24
	17,30417,58979	17,75539	2,31601	57,61367,7888	58,61091	
50	13052,61922,20052	13165,24976	1 00862,89606	9,11569,76687,2608	9,11942,91025	30: 0
	17,30377,82923	17,75621	2,31918	57,53602,7417	58,53461	
51	13069,92300,02975	13183,00597	1 00865,21524	9,11627,30290,0025	9,12001,44486	30:36
	17,30338,01597	17,75702	2,32237	57,45858,2420	58,45851	
52	13087,22638,04572	13200,76299	1 00867,53761	9,11684,76148,2445	9,12059,90337	31:12
	17,30298,15000	17,75784	2,32555	57,38134,2076	58,38262	
53	13104,52936,19572	13218,52083	1 00869,86316	9,11742,14282,4521	9,12118,28599	31:48
	17,30258,23132	17,75867	2,32872	57,30430,5571	58,30692	
54	13121,83194,42704	13236,27950	1 00872,19188	9,11799,44713,0092	9,12176,59291	32:24
	17,30218,25994	17,75948	2,33191	57,22747,2095	58,23144	
55	13139,13412,68698	13254,03898	1 00874,52379	9,11856,67460,2187	9,12234,82435	33: 0
	17,30178,23585	17,76030	2,33508	57,15084,0840	58,15615	
56	13156,43590,92283	13271,79928	1 00876,85887	9,11913,82544,3027	9,12292,98050	33:36
	17,30138,15904	17,76113	2,33827	57,07441,1007	58,08107	
57	13173,73729,08187	13289,56041	1 00879,19714	9,11970,89985,4034	9,12351,06157	34:12
	17,30098,02955	17,76195	2,34145	56,99818,1795	58,00619	
58	13191,03827,11142	13307,32236	1 00881,53859	9,12027,89803,5829	9,12409,06776	34:48
	17,30057,84736	17,76278	2,34463	56,92215,2413	57,93150	
59	13208,33884,95878	13325,08514	1 00883,88322	9,12084,82018,8242	9,12466,99926	35:24
	17,30017,61244	17,76360	2,34782	56,84632,2071	57,85702	
60	13225,63902,57122	13342,84874	1 00886,23104	9,12141,66651,0313	9,12524,85628	36: 0
	17,29977,32485	17,76443	2,35099	56,77068,9983	57,78274	
61	13242,93879,89607	13360,61317	1 00888,58203	9,12198,43720,0296	9,12582,63902	36:36
	17,29936,98455	17,76526	2,35418	56,69525,5368	57,70864	
62	13260,23816,88062	13378,37843	1 00890,93621	9,12255,13245,5664	9,12640,34766	37:12
	17,29896,59156	17,76609	2,35736	56,62001,7451	57,63476	
63	13277,53713,47218	13396,14452	1 00893,29357	9,12311,75247,3115	9,12697,98242	37:48
	17,29856,14586	17,76692	2,36055	56,54497,5455	57,56105	
64	13294,83569,61804	13413,91144	1 00895,65412	9,12368,29744,8570	9,12755,54347	38:24
	17,29815,64748	17,76775	2,36373	56,47012,8617	57,48756	
65	13312,13385,26552	13431,67919	1 00898,01785	9,12424,76757,7187	9,12813,03103	39: 0
	17,29775,09640	17,76858	2,36691	56,39547,6166	57,41426	
66	13329,43160,36192	13449,44777	1 00900,38476	9,12481,16305,3353	9,12870,44529	39:36
	17,29734,49263	17,76942	2,37010	56,32101,7346	57,34114	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	99182,77757,52841 2,22827,05570	7 77392,30351 1070,77065	7 83797,67387 1062,00815	9,99643,62663,7421 97571,0201	10,89064,02366 59,86042	40:12
66	99180,54930,47271 2,23129,17693	7 76321,53286 1067,87292	7 82735,66572 1059,11033	9,99642,65092,7220 97705,5088	10,89004,16324 59,78072	39:36
65	99178,31801,29578 2,23431,29136	7 75253,65994 1064,98701	7 81676,55539 1056,22431	9,99641,67387,2132 97840,0036	10,88944,38252 59,70123	39: 0
64	99176,08370,00442 2,23733,39899	7 74188,67293 1062,11284	7 80620,33108 1053,35005	9,99640,69547,2096 97974,5045	10,88884,68129 59,62196	38:24
63	99173,84636,60543 2,24035,49980	7 73126,56009 1059,25036	7 79566,98103 1050,48746	9,99639,71572,7051 98109,0115	10,88825,05933 59,54290	37:48
62	99171,60601,10563 2,24337,59379	7 72067,30973 1056,39950	7 78516,49357 1047,63651	9,99638,73463,6936 98243,5245	10,88765,51643 59,46407	37:12
61	99169,36263,51184 2,24639,68094	7 71010,91023 1053,56019	7 77468,85706 1044,79710	9,99637,75220,1691 98378,0436	10,88706,05236 59,38545	36:36
60	99167,11623,83090 2,24941,76124	7 69957,35004 1050,73238	7 76424,05996 1041,96919	9,99636,76842,1255 98512,5689	10,88646,66691 59,30704	36: 0
59	99164,86682,06966 2,25243,83471	7 68906,61766 1047,91600	7 75382,09077 1039,15272	9,99635,78329,5566 98647,1001	10,88587,35987 59,22885	35:24
58	99162,61438,23495 2,25545,90130	7 67858,70166 1045,11100	7 74342,93805 1036,34761	9,99634,79682,4565 98781,6376	10,88528,13102 59,15087	34:48
57	99160,35892,33365 2,25847,96103	7 66813,59066 1042,31731	7 73306,59044 1033,55382	9,99633,80900,8189 98916,1811	10,88468,98015 59,07310	34:12
56	99158,10044,37262 2,26150,01388	7 65771,27335 1039,53486	7 72273,03662 1030,77127	9,99632,81984,6378 99050,7308	10,88409,90705 58,99555	33:36
55	99155,83894,35874 2,26452,05983	7 64731,73849 1036,76361	7 71242,26535 1027,99993	9,99631,82933,9070 99185,2866	10,88350,91150 58,91820	33: 0
54	99153,57442,29891 2,26754,09889	7 63694,97488 1034,00348	7 70214,26542 1025,23970	9,99630,83748,6204 99319,8486	10,88291,99330 58,84107	32:24
53	99151,30688,20002 2,27056,13105	7 62660,97140 1031,25444	7 69189,02572 1022,49055	9,99629,84428,7718 99454,4166	10,88233,15223 58,76415	31:48
52	99149,03632,06897 2,27358,15628	7 61629,71696 1028,51639	7 68166,53517 1019,75240	9,99628,84974,3552 99588,9910	10,88174,38808 58,68742	31:12
51	99146,76273,91269 2,27660,17459	7 60601,20057 1025,78930	7 67146,78277 1017,02522	9,99627,85385,3642 99723,5714	10,88115,70066 58,61091	30:36
50	99144,48613,73810 2,27962,18596	7 59575,41127 1023,07310	7 66129,75755 1014,30891	9,99626,85661,7928 99858,1580	10,88057,08975 58,53461	30: 0
49	99142,20651,55214 2,28264,19039	7 58552,33817 1020,36775	7 65115,44864 1011,60346	9,99625,85803,6348 99992,7509	10,87998,55514 58,45851	29:24
48	99139,92387,36175 2,28566,18788	7 57531,97042 1017,67316	7 64103,84518 1008,90878	9,99624,85810,8839 1,00127,3498	10,87940,09663 58,38262	28:48
47	99137,63821,17387 2,28868,17838	7 56514,29726 1014,98931	7 63094,93640 1006,22482	9,99623,85683,5341 1,00261,9551	10,87881,71401 58,30692	28:12
46	99135,34952,99549 2,29170,16193	7 55499,30795 1012,31610	7 62088,71158 1003,55152	9,99622,85421,5790 1,00396,5666	10,87823,40709 58,23144	27:36
45	99133,05782,83356 2,29472,13849	7 54486,99185 1009,65353	7 61085,16006 1000,88883	9,99621,85025,0124 1,00531,1841	10,87765,17565 58,15615	27: 0
44	99130,76310,69507 2,29774,10807	7 53477,33832 1007,00149	7 60084,27123 998,23670	9,99620,84493,8283 1,00665,8081	10,87707,01950 58,08107	26:24
43	99128,46536,58700 2,30076,07063	7 52470,33683 1004,35995	7 59086,03453 995,59506	9,99619,83828,0202 1,00800,4382	10,87648,93843 58,00619	25:48
42	99126,16460,51637 2,30378,02621	7 51465,97688 1001,72885	7 58090,43947 992,96386	9,99618,83027,5820 1,00935,0747	10,87590,93224 57,93150	25:12
41	99123,86082,49016 2,30679,97474	7 50464,24803 999,10814	7 57097,47561 990,34305	9,99617,82092,5073 1,01069,7172	10,87533,00074 57,85702	24:36
40	99121,55402,51542 2,30981,91627	7 49465,13989 996,49777	7 56107,13256 987,73257	9,99616,81022,7901 1,01204,3662	10,87475,14372 57,78274	24: 0
39	99119,24420,59915 2,31283,85075	7 48468,64212 993,89766	7 55119,39999 985,13236	9,99615,79818,4239 1,01339,0213	10,87417,36098 57,70864	23:24
38	99116,93136,74840 2,31585,77819	7 47474,74446 991,30778	7 54134,26763 982,54239	9,99614,78479,4026 1,01473,6828	10,87359,65234 57,63476	22:48
37	99114,61550,97021 2,31887,69857	7 46483,43668 988,72808	7 53151,72524 979,96257	9,99613,77005,7198 1,01608,3506	10,87302,01758 57,56105	22:12
36	99112,29663,27164 2,32189,61189	7 45494,70860 986,15848	7 52171,76267 977,39288	9,99612,75397,3692 1,01743,0246	10,87244,45653 57,48756	21:36
35	99109,97473,65975 2,32491,51814	7 44508,55012 983,59895	7 51194,36979 974,83325	9,99611,73654,3446 1,01877,7051	10,87186,96897 57,41426	21: 0
34	99107,64982,14161 2,32793,41730	7 43524,95117 981,04944	7 50219,53654 972,28363	9,99610,71776,6395 1,02012,3917	10,87129,55471 57,34114	20:24

GRAD. 82.

7. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	13346,72894,85455	13467,21719	1 00902,75486	9,12537,48407,0699	9,12927,78643	40:12
	17,29693,83617	17,77026	2,37329	56,24675,1397	57,26822	
68	13364,02588,69072	13484,98745	1 00905,12815	9,12593,73082,2096	9,12985,05465	40:48
	17,29653,12702	17,77109	2,37647	56,17267,7568	57,19550	
69	13381,32241,81774	13502,75854	1 00907,50462	9,12649,90349,9664	9,13042,25015	41:24
	17,29612,36518	17,77192	2,37965	56,09879,5110	57,12296	
70	13398,61854,18292	13520,53046	1 00909,88427	9,12706,00229,4774	9,13099,37311	42: 0
	17,29571,55065	17,77277	2,38285	56,02510,3275	57,05061	
71	13415,91425,73357	13538,30323	1 00912,26712	9,12762,02739,8049	9,13156,42372	42:36
	17,29530,68345	17,77361	2,38602	55,95160,1325	56,97846	
72	13433,20956,41702	13556,07684	1 00914,65314	9,12817,97899,9374	9,13213,40218	43:12
	17,29489,76354	17,77445	2,38922	55,87828,8521	56,90650	
73	13450,50446,18056	13573,85129	1 00917,04236	9,12873,85728,7895	9,13270,30868	43:48
	17,29448,79097	17,77529	2,39240	55,80516,4131	56,83471	
74	13467,79894,97153	13591,62658	1 00919,43476	9,12929,66245,2026	9,13327,14339	44:24
	17,29407,76570	17,77613	2,39559	55,73222,7422	56,76313	
75	13485,09302,73723	13609,40271	1 00921,83035	9,12985,39467,9448	9,13383,90652	45: 0
	17,29366,68776	17,77698	2,39878	55,65947,7671	56,69173	
76	13502,38669,42499	13627,17969	1 00924,22913	9,13041,05415,7119	9,13440,59825	45:36
	17,29325,55714	17,77782	2,40197	55,58691,4155	56,62051	
77	13519,67994,98213	13644,95751	1 00926,63110	9,13096,64107,1274	9,13497,21876	46:12
	17,29284,37384	17,77867	2,40516	55,51453,6154	56,54948	
78	13536,97279,35597	13662,73618	1 00929,03626	9,13152,15560,7428	9,13553,76824	46:48
	17,29243,13786	17,77952	2,40834	55,44234,2954	56,47863	
79	13554,26522,49383	13680,51570	1 00931,44460	9,13207,59795,0382	9,13610,24687	47:24
	17,29201,84921	17,78036	2,41154	55,37033,3844	56,40798	
80	13571,55724,34304	13698,29606	1 00933,85614	9,13262,96828,4226	9,13666,65485	48: 0
	17,29160,50789	17,78122	2,41472	55,29850,8116	56,33749	
81	13588,84884,85093	13716,07728	1 00936,27086	9,13318,26679,2342	9,13722,99234	48:36
	17,29119,11388	17,78207	2,41792	55,22686,5067	56,26720	
82	13606,14003,96481	13733,85935	1 00938,68878	9,13373,49365,7409	9,13779,25954	49:12
	17,29077,66721	17,78292	2,42111	55,15540,3994	56,19709	
83	13623,43081,63202	13751,64227	1 00941,10989	9,13428,64906,1403	9,13835,45663	49:48
	17,29036,16786	17,78378	2,42429	55,08412,4204	56,12715	
84	13640,72117,79988	13769,42605	1 00943,53418	9,13483,73318,5607	9,13891,58378	50:24
	17,28994,61586	17,78462	2,42749	55,01302,5001	56,05741	
85	13658,01112,41574	13787,21067	1 00945,96167	9,13538,74621,0608	9,13947,64119	51: 0
	17,28953,01117	17,78549	2,43068	54,94210,5695	55,98783	
86	13675,30065,42691	13804,99616	1 00948,39235	9,13593,68831,6303	9,14003,62902	51:36
	17,28911,35382	17,78634	2,43388	54,87136,5602	55,91844	
87	13692,58976,78073	13822,78250	1 00950,82623	9,13648,55968,1905	9,14059,54746	52:12
	17,28869,64381	17,78720	2,43706	54,80080,4037	55,84922	
88	13709,87846,42454	13840,56970	1 00953,26329	9,13703,36048,5942	9,14115,39668	52:48
	17,28827,88114	17,78806	2,44026	54,73042,0323	55,78020	
89	13727,16674,30568	13858,35776	1 00955,70355	9,13758,09090,6265	9,14171,17688	53:24
	17,28786,06579	17,78892	2,44346	54,66021,3782	55,71133	
90	13744,45460,37147	13876,14668	1 00958,14701	9,13812,75112,0047	9,14226,88821	54: 0
	17,28744,19779	17,78979	2,44664	54,59018,3743	55,64265	
91	13761,74204,56926	13893,93647	1 00960,59365	9,13867,34130,3790	9,14282,53086	54:36
	17,28702,27712	17,79064	2,44984	54,52032,9535	55,57415	
92	13779,02906,84638	13911,72711	1 00963,04349	9,13921,86163,3325	9,14338,10501	55:12
	17,28660,30380	17,79151	2,45304	54,45065,0496	55,50581	
93	13796,31567,15018	13929,51862	1 00965,49653	9,13976,31228,3821	9,14393,61082	55:48
	17,28618,27783	17,79237	2,45623	54,38114,5961	55,43766	
94	13813,60185,42801	13947,31099	1 00967,95276	9,14030,69342,9782	9,14449,04848	56:24
	17,28576,19918	17,79324	2,45942	54,31181,5271	55,36968	
95	13830,88761,62719	13965,10423	1 00970,41218	9,14085,00524,5053	9,14504,41816	57: 0
	17,28534,06789	17,79411	2,46262	54,24265,7772	55,30187	
96	13848,17295,69508	13982,89834	1 00972,87480	9,14139,24790,2825	9,14559,72003	57:36
	17,28491,88395	17,79498	2,46582	54,17367,2809	55,23423	
97	13865,45787,57903	14000,69332	1 00975,34062	9,14193,42157,5634	9,14614,95426	58:12
	17,28449,64734	17,79584	2,46901	54,10485,9736	55,16677	
98	13882,74237,22637	14018,48916	1 00977,80963	9,14247,52643,5370	9,14670,12103	58:48
	17,28407,35809	17,79672	2,47221	54,03621,7906	55,09947	
99	13900,02644,58446	14036,28588	1 00980,28184	9,14301,56265,3276	9,14725,22050	59:24
	17,28365,01619	17,79759	2,47541	53,96774,6676	55,03236	
100	13917,31009,60065	14054,08347	1 00982,75725	9,14355,53039,9952	9,14780,25286	60: 0
	17,28322,62164	17,79846	2,47861	53,89944,5406	54,96540	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	99105,32188,72431 2,33095,30938	7 42543,90173 978,50989	7 49247,25291 969,74397	9,99609,69764,2478 1,02147,0847	10,87072,21357 57,26822	19:48
32	99102,99093,41493 2,33397,19435	7 41565,39184 975,98023	7 48277,50894 967,21423	9,99608,67617,1631 1,02281,7841	10,87014,94535 57,19550	19:12
31	99100,65696,22058 2,33699,07222	7 40589,41161 973,46044	7 47310,29471 964,69432	9,99607,65335,3790 1,02416,4898	10,86957,74985 57,12296	18:36
30	99098,31997,14836 2,34000,94296	7 39615,95117 970,95045	7 46345,60039 962,18423	9,99606,62918,8892 1,02551,2019	10,86900,62689 57,05061	18: 0
29	99095,97996,20540 2,34302,80657	7 38645,00072 968,45022	7 45383,41616 959,68390	9,99605,60367,6873 1,02685,9202	10,86843,57628 56,97846	17:24
28	99093,63693,39883 2,34604,66306	7 37676,55050 965,95969	7 44423,73226 957,19326	9,99604,57681,7671 1,02820,6451	10,86786,59782 56,90650	16:48
27	99091,29088,73577 2,34906,51238	7 36710,59081 963,47881	7 43466,53900 954,71228	9,99603,54861,1220 1,02955,3762	10,86729,69132 56,83471	16:12
26	99088,94182,22339 2,35208,35457	7 35747,11200 961,00754	7 42511,82672 952,24091	9,99602,51905,7458 1,03090,1138	10,86672,85661 56,76313	15:36
25	99086,58973,86882 2,35510,18957	7 34786,10446 958,54582	7 41559,58581 949,77908	9,99601,48815,6320 1,03224,8577	10,86616,09348 56,69173	15: 0
24	99084,23463,67925 2,35812,01742	7 33827,55864 956,09360	7 40609,80673 947,32677	9,99600,45590,7743 1,03359,6081	10,86559,40175 56,62051	14:24
23	99081,87651,66183 2,36113,83807	7 32871,46504 953,65085	7 39662,47996 944,88390	9,99599,42231,1662 1,03494,3649	10,86502,78124 56,54948	13:48
22	99079,51537,82376 2,36415,65153	7 31917,81419 951,21750	7 38717,59606 942,45045	9,99598,38736,8013 1,03629,1281	10,86446,23176 56,47863	13:12
21	99077,15122,17223 2,36717,45779	7 30966,59669 948,79350	7 37775,14561 940,02635	9,99597,35107,6732 1,03763,8977	10,86389,75313 56,40798	12:36
20	99074,78404,71444 2,37019,25685	7 30017,80319 946,37883	7 36835,11926 937,61157	9,99596,31343,7755 1,03898,6737	10,86333,34515 56,33749	12: 0
19	99072,41385,45759 2,37321,04867	7 29071,42436 943,97340	7 35897,50769 935,20605	9,99595,27445,1018 1,04033,4563	10,86277,00766 56,26720	11:24
18	99070,04064,40892 2,37622,83327	7 28127,45096 941,57721	7 34962,30164 932,80974	9,99594,23411,6455 1,04168,2452	10,86220,74046 56,19709	10:48
17	99067,66441,57565 2,37924,61064	7 27185,87375 939,19018	7 34029,49190 930,42261	9,99593,19243,4003 1,04303,0407	10,86164,54337 56,12715	10:12
16	99065,28516,96501 2,38226,38075	7 26246,68357 936,81228	7 33099,06929 928,04460	9,99592,14940,3596 1,04437,8426	10,86108,41622 56,05741	9:36
15	99062,90290,58426 2,38528,14361	7 25309,87129 934,44344	7 32171,02469 925,67566	9,99591,10502,5170 1,04572,6510	10,86052,35881 55,98783	9: 0
14	99060,51762,44065 2,38829,89920	7 24375,42785 932,08364	7 31245,34903 923,31576	9,99590,05929,8660 1,04707,4659	10,85996,37098 55,91844	8:24
13	99058,12932,54145 2,39131,64752	7 23443,34421 929,73282	7 30322,03327 920,96483	9,99589,01222,4001 1,04842,2873	10,85940,45254 55,84922	7:48
12	99055,73800,89393 2,39433,38855	7 22513,61139 927,39095	7 29401,06844 918,62285	9,99587,96380,1128 1,04977,1152	10,85884,60332 55,78020	7:12
11	99053,34367,50538 2,39735,12229	7 21586,22044 925,05796	7 28482,44559 916,28976	9,99586,91402,9976 1,05111,9496	10,85828,82312 55,71133	6:36
10	99050,94632,38309 2,40036,84873	7 20661,16248 922,73382	7 27566,15583 913,96552	9,99585,86291,0480 1,05246,7906	10,85773,11179 55,64265	6: 0
9	99048,54595,53436 2,40338,56785	7 19738,42866 920,41850	7 26652,19031 911,65008	9,99584,81044,2574 1,05381,6380	10,85717,46914 55,57415	5:24
8	99046,14256,96651 2,40640,27965	7 18818,01016 918,11192	7 25740,54023 909,34340	9,99583,75662,6194 1,05516,4921	10,85661,89499 55,50581	4:48
7	99043,73616,68686 2,40941,98413	7 17899,89824 915,81406	7 24831,19683 907,04544	9,99582,70146,1273 1,05651,3526	10,85606,38918 55,43766	4:12
6	99041,32674,70273 2,41243,68126	7 16984,08418 913,52488	7 23924,15139 904,75615	9,99581,64494,7747 1,05786,2198	10,85550,95152 55,36968	3:36
5	99038,91431,02147 2,41545,37104	7 16070,55930 911,24432	7 23019,39524 902,47548	9,99580,58708,5549 1,05921,0935	10,85495,58184 55,30187	3: 0
4	99036,49885,65043 2,41847,05347	7 15159,31498 908,97234	7 22116,91976 900,20340	9,99579,52787,4614 1,06055,9737	10,85440,27997 55,23423	2:24
3	99034,08038,59696 2,42148,72853	7 14250,34264 906,70892	7 21216,71636 897,93986	9,99578,46731,4877 1,06190,8607	10,85385,04574 55,16677	1:48
2	99031,65889,86843 2,42450,39622	7 13343,63372 904,45398	7 20318,77650 895,68483	9,99577,40540,6270 1,06325,7541	10,85329,87897 55,09947	1:12
1	99029,23439,47221 2,42752,05651	7 12439,17974 902,20750	7 19423,09167 893,43824	9,99576,34214,8729 1,06460,6542	10,85274,77950 55,03236	0:36
0	99026,80687,41570 2,43053,70941	7 11536,97224 899,96944	7 18529,65343 891,20007	9,99575,27754,2187 1,06595,5609	10,85219,74714 54,96540	0: 0

GRAD. 82.

8. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	13917,31009,60065	14054,08347	1 00982,75725	9,14355,53039,9952	9,14780,25286	0: 0
	17,28322,62164	17,79846	2,47861	53,89944,5406	54,96540	
1	13934,59332,22229	14071,88193	1 00985,23586	9,14409,42984,5358	9,14835,21826	0:36
	17,28280,17445	17,79934	2,48180	53,83131,3461	54,89862	
2	13951,87612,39674	14089,68127	1 00987,71766	9,14463,26115,8819	9,14890,11688	1:12
	17,28237,67459	17,80021	2,48500	53,76335,0208	54,83200	
3	13969,15850,07133	14107,48148	1 00990,20266	9,14517,02450,9027	9,14944,94888	1:48
	17,28195,12211	17,80109	2,48820	53,69555,5017	54,76556	
4	13986,44045,19344	14125,28257	1 00992,69086	9,14570,72006,4044	9,14999,71444	2:24
	17,28152,51697	17,80196	2,49140	53,62792,7260	54,69928	
5	14003,72197,71041	14143,08453	1 00995,18226	9,14624,34799,1304	9,15054,41372	3: 0
	17,28109,85920	17,80285	2,49460	53,56046,6315	54,63317	
6	14021,00307,56961	14160,88738	1 00997,67686	9,14677,90845,7619	9,15109,04689	3:36
	17,28067,14878	17,80372	2,49780	53,49317,1562	54,56722	
7	14038,28374,71839	14178,69110	1 01000,17466	9,14731,40162,9181	9,15163,61411	4:12
	17,28024,38572	17,80461	2,50100	53,42604,2381	54,50144	
8	14055,56399,10411	14196,49571	1 01002,67566	9,14784,82767,1562	9,15218,11555	4:48
	17,27981,57003	17,80549	2,50420	53,35907,8160	54,43583	
9	14072,84380,67414	14214,30120	1 01005,17986	9,14838,18674,9722	9,15272,55138	5:24
	17,27938,70169	17,80637	2,50740	53,29227,8286	54,37038	
10	14090,12319,37583	14232,10757	1 01007,68726	9,14891,47902,8008	9,15326,92176	6: 0
	17,27895,78072	17,80726	2,51060	53,22564,2152	54,30509	
11	14107,40215,15655	14249,91483	1 01010,19786	9,14944,70467,0160	9,15381,22685	6:36
	17,27852,80712	17,80814	2,51381	53,15916,9152	54,23997	
12	14124,68067,96367	14267,72297	1 01012,71167	9,14997,86383,9312	9,15435,46682	7:12
	17,27809,78088	17,80903	2,51701	53,09285,8683	54,17501	
13	14141,95877,74455	14285,53200	1 01015,22868	9,15050,95669,7995	9,15489,64183	7:48
	17,27766,70201	17,80992	2,52021	53,02671,0146	54,11021	
14	14159,23644,44656	14303,34192	1 01017,74889	9,15103,98340,8141	9,15543,75204	8:24
	17,27723,57050	17,81080	2,52341	52,96072,2947	54,04557	
15	14176,51368,01706	14321,15272	1 01020,27230	9,15156,94413,1088	9,15597,79761	9: 0
	17,27680,38638	17,81170	2,52661	52,89489,6488	53,98110	
16	14193,79048,40344	14338,96442	1 01022,79891	9,15209,83902,7576	9,15651,77871	9:36
	17,27637,14962	17,81259	2,52983	52,82923,0181	53,91678	
17	14211,06685,55306	14356,77701	1 01025,32874	9,15262,66825,7757	9,15705,69549	10:12
	17,27593,86024	17,81348	2,53302	52,76372,3439	53,85262	
18	14228,34279,41330	14374,59049	1 01027,86176	9,15315,43198,1196	9,15759,54811	10:48
	17,27550,51823	17,81437	2,53623	52,69837,5675	53,78863	
19	14245,61829,93153	14392,40486	1 01030,39799	9,15368,13035,6871	9,15813,33674	11:24
	17,27507,12359	17,81527	2,53943	52,63318,6309	53,72478	
20	14262,89337,05512	14410,22013	1 01032,93742	9,15420,76354,3180	9,15867,06152	12: 0
	17,27463,67633	17,81617	2,54264	52,56815,4760	53,66111	
21	14280,16800,73145	14428,03630	1 01035,48006	9,15473,33169,7940	9,15920,72263	12:36
	17,27420,17645	17,81706	2,54585	52,50328,0453	53,59758	
22	14297,44220,90790	14445,85336	1 01038,02591	9,15525,83497,8393	9,15974,32021	13:12
	17,27376,62396	17,81797	2,54905	52,43856,2813	53,53422	
23	14314,71597,53186	14463,67133	1 01040,57496	9,15578,27354,1206	9,16027,85443	13:48
	17,27333,01883	17,81886	2,55226	52,37400,1272	53,47100	
24	14331,98930,55069	14481,49019	1 01043,12722	9,15630,64754,2478	9,16081,32543	14:24
	17,27289,36110	17,81976	2,55546	52,30959,5259	53,40795	
25	14349,26219,91179	14499,30995	1 01045,68268	9,15682,95713,7737	9,16134,73338	15: 0
	17,27245,65075	17,82066	2,55868	52,24534,4211	53,34505	
26	14366,53465,56254	14517,13061	1 01048,24136	9,15735,20248,1948	9,16188,07843	15:36
	17,27201,88778	17,82157	2,56188	52,18124,7563	53,28230	
27	14383,80667,45032	14534,95218	1 01050,80324	9,15787,38372,9511	9,16241,36073	16:12
	17,27158,07220	17,82247	2,56509	52,11730,4758	53,21971	
28	14401,07825,52252	14552,77465	1 01053,36833	9,15839,50103,4269	9,16294,58044	16:48
	17,27114,20401	17,82338	2,56829	52,05351,5237	53,15727	
29	14418,34939,72653	14570,59803	1 01055,93662	9,15891,55454,9506	9,16347,73771	17:24
	17,27070,28320	17,82428	2,57151	51,98987,8446	53,09499	
30	14435,62010,00973	14588,42231	1 01058,50813	9,15943,54442,7952	9,16400,83270	18: 0
	17,27026,30979	17,82519	2,57472	51,92639,3834	53,03285	
31	14452,89036,31952	14606,24750	1 01061,08285	9,15995,47082,1786	9,16453,86555	18:36
	17,26982,28377	17,82610	2,57792	51,86306,0851	52,97087	
32	14470,16018,60329	14624,07360	1 01063,66077	9,16047,33388,2637	9,16506,83642	19:12
	17,26938,20514	17,82701	2,58114	51,79987,8951	52,90904	
33	14487,42956,80843	14641,90061	1 01066,24191	9,16099,13376,1588	9,16559,74546	19:48
	17,26894,07391	17,82792	2,58435	51,73684,7591	52,84736	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	99026,80687,41570 2,43053,70941	7 11536,97224 899,96944	7 18529,65343 891,20007	9,99575,27754,2187 1,06595,5609	10,85219,74714 54,96540	60: 0
99	99024,37633,70629 2,43355,35492	7 10637,00280 897,73975	7 17638,45336 888,97027	9,99574,21158,6578 1,06730,4743	10,85164,78174 54,89862	59:24
98	99021,94278,35137 2,43656,99300	7 09739,26305 895,51839	7 16749,48309 886,74880	9,99573,14428,1835 1,06865,3941	10,85109,88312 54,83200	58:48
97	99019,50621,35837 2,43958,62366	7 08843,74466 893,30532	7 15862,73429 884,53563	9,99572,07562,7894 1,07000,3208	10,85055,05112 54,76556	58:12
96	99017,06662,73471 2,44260,24690	7 07950,43934 891,10050	7 14978,19866 882,33069	9,99571,00562,4686 1,07135,2540	10,85000,28556 54,69928	57:36
95	99014,62402,48781 2,44561,86269	7 07059,33884 888,90387	7 14095,86797 880,13397	9,99569,93427,2146 1,07270,1938	10,84945,58628 54,63317	57: 0
94	99012,17840,62512 2,44863,47103	7 06170,43497 886,71543	7 13215,73400 877,94541	9,99568,86157,0208 1,07405,1405	10,84890,95311 54,56722	56:24
93	99009,72977,15409 2,45165,07192	7 05283,71954 884,53510	7 12337,78859 875,76498	9,99567,78751,8803 1,07540,0937	10,84836,38589 54,50144	55:48
92	99007,27812,08217 2,45466,66533	7 04399,18444 882,36287	7 11462,02361 873,59263	9,99566,71211,7866 1,07675,0536	10,84781,88445 54,43583	55:12
91	99004,82345,41684 2,45768,25126	7 03516,82157 880,19867	7 10588,43098 871,42833	9,99565,63536,7330 1,07810,0202	10,84727,44862 54,37038	54:36
90	99002,36577,16558 2,46069,82972	7 02636,62290 878,04248	7 09717,00265 869,27204	9,99564,55726,7128 1,07944,9935	10,84673,07824 54,30509	54: 0
89	98999,90507,33586 2,46371,40068	7 01758,58042 875,89426	7 08847,73061 867,12370	9,99563,47781,7193 1,08079,9735	10,84618,77315 54,23997	53:24
88	98997,44135,93518 2,46672,96413	7 00882,68616 873,75396	7 07980,60691 864,98330	9,99562,39701,7458 1,08214,9603	10,84564,53318 54,17501	52:48
87	98994,97462,97105 2,46974,52006	7 00008,93220 871,62156	7 07115,62361 862,85078	9,99561,31486,7855 1,08349,9538	10,84510,35817 54,11021	52:12
86	98992,50488,45099 2,47276,06848	6 99137,31064 869,49701	7 06252,77283 860,72612	9,99560,23136,8317 1,08484,9539	10,84456,24796 54,04557	51:36
85	98990,03212,38251 2,47577,60935	6 98267,81363 867,38026	7 05392,04671 858,60927	9,99559,14651,8778 1,08619,9609	10,84402,20239 53,98110	51: 0
84	98987,55634,77316 2,47879,14270	6 97400,43337 865,27128	7 04533,43744 856,50019	9,99558,06031,9169 1,08754,9746	10,84348,22129 53,91678	50:24
83	98985,07755,63046 2,48180,66848	6 96535,16209 863,17005	7 03676,93725 854,39884	9,99556,97276,9423 1,08889,9951	10,84294,30451 53,85262	49:48
82	98982,59574,96198 2,48482,18672	6 95671,99204 861,07651	7 02822,53841 852,30519	9,99555,88386,9472 1,09025,0223	10,84240,45189 53,78863	49:12
81	98980,11092,77526 2,48783,69737	6 94810,91553 858,99063	7 01970,23322 850,21919	9,99554,79361,9249 1,09160,0563	10,84186,66326 53,72478	48:36
80	98977,62309,07789 2,49085,20045	6 93951,92490 856,91238	7 01120,01403 848,14084	9,99553,70201,8686 1,09295,0971	10,84132,93848 53,66111	48: 0
79	98975,13223,87744 2,49386,69595	6 93095,01252 854,84169	7 00271,87319 846,07005	9,99552,60906,7715 1,09430,1447	10,84079,27737 53,59758	47:24
78	98972,63837,18149 2,49688,18384	6 92240,17083 852,77858	6 99425,80314 844,00681	9,99551,51476,6268 1,09565,1991	10,84025,67979 53,53422	46:48
77	98970,14148,99765 2,49989,66414	6 91387,39225 850,72296	6 98581,79633 841,95109	9,99550,41911,4277 1,09700,2604	10,83972,14557 53,47100	46:12
76	98967,64159,33351 2,50291,13681	6 90536,66929 848,67482	6 97739,84524 839,90284	9,99549,32211,1673 1,09835,3283	10,83918,67457 53,40795	45:36
75	98965,13868,19670 2,50592,60186	6 89687,99447 846,63413	6 96899,94240 837,86204	9,99548,22375,8390 1,09970,4033	10,83865,26662 53,34505	45: 0
74	98962,63275,59484 2,50894,05928	6 88841,36034 844,60083	6 96062,08036 835,82862	9,99547,12405,4357 1,10105,4850	10,83811,92157 53,28230	44:24
73	98960,12381,53556 2,51195,50905	6 87996,75951 842,57490	6 95226,25174 833,80259	9,99546,02299,9507 1,10240,5735	10,83758,63927 53,21971	43:48
72	98957,61186,02651 2,51496,95118	6 87154,18461 840,55630	6 94392,44915 831,78388	9,99544,92059,3772 1,10375,6689	10,83705,41956 53,15727	43:12
71	98955,09689,07533 2,51798,38564	6 86313,62831 838,54500	6 93560,66527 829,77247	9,99543,81683,7083 1,10510,7713	10,83652,26229 53,09499	42:36
70	98952,57890,68969 2,52099,81243	6 85475,08331 836,54097	6 92730,89280 827,76832	9,99542,71172,9370 1,10645,8804	10,83599,16730 53,03285	42: 0
69	98950,05790,87726 2,52401,23154	6 84638,54234 834,54415	6 91903,12448 825,77140	9,99541,60527,0566 1,10780,9965	10,83546,13445 52,97087	41:24
68	98947,53389,64572 2,52702,64297	6 83803,99819 832,55453	6 91077,35308 823,78166	9,99540,49746,0601 1,10916,1194	10,83493,16358 52,90904	40:48
67	98945,00687,00275 2,53004,04669	6 82971,44366 830,57207	6 90253,57142 821,79909	9,99539,38829,9407 1,11051,2492	10,83440,25454 52,84736	40:12

GRAD. 81.

8. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	14487,42956,80843	14641,90061	1 01066,24191	9,16099,13376,1588	9,16559,74546	19:48
	17,26894,07391	17,82792	2,58435	51,73684,7591	52,84736	
34	14504,69850,88234	14659,72853	1 01068,82626	9,16150,87060,9179	9,16612,59282	20:24
	17,26849,89006	17,82884	2,58755	51,67396,6228	52,78583	
35	14521,96700,77240	14677,55737	1 01071,41381	9,16202,54457,5407	9,16665,37865	21: 0
	17,26805,65363	17,82975	2,59077	51,61123,4325	52,72445	
36	14539,23506,42603	14695,38712	1 01074,00458	9,16254,15580,9732	9,16718,10310	21:36
	17,26761,36458	17,83066	2,59398	51,54865,1345	52,66322	
37	14556,50267,79061	14713,21778	1 01076,59856	9,16305,70446,1077	9,16770,76632	22:12
	17,26717,02295	17,83157	2,59720	51,48621,6755	52,60214	
38	14573,76984,81356	14731,04935	1 01079,19576	9,16357,19067,7832	9,16823,36846	22:48
	17,26672,62870	17,83250	2,60040	51,42393,0023	52,54120	
39	14591,03657,44226	14748,88185	1 01081,79616	9,16408,61460,7855	9,16875,90966	23:24
	17,26628,18186	17,83341	2,60362	51,36179,0623	52,48041	
40	14608,30285,62412	14766,71526	1 01084,39978	9,16459,97639,8478	9,16928,39007	24: 0
	17,26583,68242	17,83433	2,60684	51,29979,8027	52,41977	
41	14625,56869,30654	14784,54959	1 01087,00662	9,16511,27619,6505	9,16980,80984	24:36
	17,26539,13040	17,83525	2,61004	51,23795,1712	52,35928	
42	14642,83408,43694	14802,38484	1 01089,61666	9,16562,51414,8217	9,17033,16912	25:12
	17,26494,52577	17,83618	2,61326	51,17625,1157	52,29892	
43	14660,09902,96271	14820,22102	1 01092,22992	9,16613,69039,9374	9,17085,46804	25:48
	17,26449,86856	17,83709	2,61648	51,11469,5845	52,23873	
44	14677,36352,83127	14838,05811	1 01094,84640	9,16664,80509,5219	9,17137,70677	26:24
	17,26405,15875	17,83802	2,61969	51,05328,5257	52,17867	
45	14694,62757,99002	14855,89613	1 01097,46609	9,16715,85838,0476	9,17189,88544	27: 0
	17,26360,39635	17,83895	2,62291	50,99201,8884	52,11875	
46	14711,89118,38637	14873,73508	1 01100,08900	9,16766,85039,9360	9,17242,00419	27:36
	17,26315,58138	17,83987	2,62612	50,93089,6210	52,05898	
47	14729,15433,96775	14891,57495	1 01102,71512	9,16817,78129,5570	9,17294,06317	28:12
	17,26270,71380	17,84080	2,62934	50,86991,6729	51,99936	
48	14746,41704,68155	14909,41575	1 01105,34446	9,16868,65121,2299	9,17346,06253	28:48
	17,26225,79365	17,84173	2,63255	50,80907,9935	51,93987	
49	14763,67930,47520	14927,25748	1 01107,97701	9,16919,46029,2234	9,17398,00240	29:24
	17,26180,82091	17,84265	2,63578	50,74838,5323	51,88052	
50	14780,94111,29611	14945,10013	1 01110,61279	9,16970,20867,7557	9,17449,88292	30: 0
	17,26135,79558	17,84359	2,63899	50,68783,2392	51,82133	
51	14798,20247,09169	14962,94372	1 01113,25178	9,17020,89650,9949	9,17501,70425	30:36
	17,26090,71769	17,84452	2,64220	50,62742,0642	51,76227	
52	14815,46337,80938	14980,78824	1 01115,89398	9,17071,52393,0591	9,17553,46652	31:12
	17,26045,58720	17,84546	2,64543	50,56714,9578	51,70335	
53	14832,72383,39658	14998,63370	1 01118,53941	9,17122,09108,0169	9,17605,16987	31:48
	17,26000,40414	17,84638	2,64865	50,50701,8702	51,64457	
54	14849,98383,80072	15016,48008	1 01121,18806	9,17172,59809,8871	9,17656,81444	32:24
	17,25955,16851	17,84733	2,65186	50,44702,7526	51,58593	
55	14867,24338,96923	15034,32741	1 01123,83992	9,17223,04512,6397	9,17708,40037	33: 0
	17,25909,88029	17,84826	2,65509	50,38717,5558	51,52744	
56	14884,50248,84952	15052,17567	1 01126,49501	9,17273,43230,1955	9,17759,92781	33:36
	17,25864,53951	17,84919	2,65830	50,32746,2309	51,46907	
57	14901,76113,38903	15070,02486	1 01129,15331	9,17323,75976,4264	9,17811,39688	34:12
	17,25819,14614	17,85014	2,66153	50,26788,7297	51,41085	
58	14919,01932,53517	15087,87500	1 01131,81484	9,17374,02765,1561	9,17862,80773	34:48
	17,25773,70021	17,85108	2,66474	50,20845,0036	51,35277	
59	14936,27706,23538	15105,72608	1 01134,47958	9,17424,23610,1597	9,17914,16050	35:24
	17,25728,20172	17,85201	2,66797	50,14915,0046	51,29482	
60	14953,53434,43710	15123,57809	1 01137,14755	9,17474,38525,1643	9,17965,45532	36: 0
	17,25682,65064	17,85296	2,67119	50,08998,6850	51,23701	
61	14970,79117,08774	15141,43105	1 01139,81874	9,17524,47523,8493	9,18016,69233	36:36
	17,25637,04700	17,85391	2,67441	50,03095,9969	51,17934	
62	14988,04754,13474	15159,28496	1 01142,49315	9,17574,50619,8462	9,18067,87167	37:12
	17,25591,39080	17,85485	2,67763	49,97206,8930	51,12180	
63	15005,30345,52554	15177,13981	1 01145,17078	9,17624,47826,7392	9,18118,99347	37:48
	17,25545,68203	17,85579	2,68086	49,91331,3262	51,06440	
64	15022,55891,20757	15194,99560	1 01147,85164	9,17674,39158,0654	9,18170,05787	38:24
	17,25499,92070	17,85674	2,68408	49,85469,2495	51,00713	
65	15039,81391,12827	15212,85234	1 01150,53572	9,17724,24627,3149	9,18221,06500	39: 0
	17,25454,10681	17,85769	2,68730	49,79620,6159	50,95000	
66	15057,06845,23508	15230,71003	1 01153,22302	9,17774,04247,9308	9,18272,01500	39:36
	17,25408,24035	17,85864	2,69053	49,73785,3791	50,89299	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98945,00687,00275 2,53004,04669	6 82971,44366 830,57207	6 90253,57142 821,79909	9,99539,38829,9407 1,11051,2492	10,83440,25454 52,84736	40:12
66	98942,47682,95606 2,53305,44271	6 82140,87159 828,59673	6 89431,77233 819,82364	9,99538,27778,6915 1,11186,3860	10,83387,40718 52,78583	39:36
65	98939,94377,51335 2,53606,83102	6 81312,27486 826,62847	6 88611,94869 817,85527	9,99537,16592,3055 1,11321,5297	10,83334,62135 52,72445	39: 0
64	98937,40770,68233 2,53908,21159	6 80485,64639 824,66728	6 87794,09342 815,89397	9,99536,05270,7758 1,11456,6803	10,83281,89690 52,66322	38:24
63	98934,86862,47074 2,54209,58444	6 79660,97911 822,71310	6 86978,19945 813,93967	9,99534,93814,0955 1,11591,8379	10,83229,23368 52,60214	37:48
62	98932,32652,88630 2,54510,94953	6 78838,26601 820,76592	6 86164,25978 811,99238	9,99533,82222,2576 1,11727,0023	10,83176,63154 52,54120	37:12
61	98929,78141,93677 2,54812,30689	6 78017,50009 818,82568	6 85352,26740 810,05203	9,99532,70495,2553 1,11862,1738	10,83124,09034 52,48041	36:36
60	98927,23329,62988 2,55113,65646	6 77198,67441 816,89237	6 84542,21537 808,11861	9,99531,58633,0815 1,11997,3521	10,83071,60993 52,41977	36: 0
59	98924,68215,97342 2,55414,99829	6 76381,78204 814,96595	6 83734,09676 806,19207	9,99530,46635,7294 1,12132,5376	10,83019,19016 52,35928	35:24
58	98922,12800,97513 2,55716,33231	6 75566,81609 813,04637	6 82927,90469 804,27239	9,99529,34503,1918 1,12267,7299	10,82966,83088 52,29892	34:48
57	98919,57084,64282 2,56017,65856	6 74753,76972 811,13364	6 82123,63230 802,35953	9,99528,22235,4619 1,12402,9293	10,82914,53196 52,23873	34:12
56	98917,01066,98426 2,56318,97700	6 73942,63608 809,22768	6 81321,27277 800,45347	9,99527,09832,5326 1,12538,1356	10,82862,29323 52,17867	33:36
55	98914,44748,00726 2,56620,28764	6 73133,40840 807,32849	6 80520,81930 798,55416	9,99525,97294,3970 1,12673,3489	10,82810,11456 52,11875	33: 0
54	98911,88127,71962 2,56921,59046	6 72326,07991 805,43602	6 79722,26514 796,66158	9,99524,84621,0481 1,12808,5694	10,82757,99581 52,05898	32:24
53	98909,31206,12916 2,57222,88546	6 71520,64389 803,55025	6 78925,60356 794,77569	9,99523,71812,4787 1,12943,7967	10,82705,93683 51,99936	31:48
52	98906,73983,24370 2,57524,17261	6 70717,09364 801,67114	6 78130,82787 792,89648	9,99522,58868,6820 1,13079,0312	10,82653,93747 51,93987	31:12
51	98904,16459,07109 2,57825,45192	6 69915,42250 799,79867	6 77337,93139 791,02388	9,99521,45789,6508 1,13214,2726	10,82601,99760 51,88052	30:36
50	98901,58633,61917 2,58126,72339	6 69115,62383 797,93279	6 76546,90751 789,15790	9,99520,32575,3782 1,13349,5212	10,82550,11708 51,82133	30: 0
49	98899,00506,89578 2,58427,98698	6 68317,69104 796,07349	6 75757,74961 787,29848	9,99519,19225,8570 1,13484,7767	10,82498,29575 51,76227	29:24
48	98896,42078,90880 2,58729,24270	6 67521,61755 794,22072	6 74970,45113 785,44560	9,99518,05741,0803 1,13620,0394	10,82446,53348 51,70335	28:48
47	98893,83349,66610 2,59030,49055	6 66727,39683 792,37447	6 74185,00553 783,59923	9,99516,92121,0409 1,13755,3091	10,82394,83013 51,64457	28:12
46	98891,24319,17555 2,59331,73050	6 65935,02236 790,53469	6 73401,40630 781,75934	9,99515,78365,7318 1,13890,5860	10,82343,18556 51,58593	27:36
45	98888,64987,44505 2,59632,96256	6 65144,48767 788,70137	6 72619,64696 779,92590	9,99514,64475,1458 1,14025,8698	10,82291,59963 51,52744	27: 0
44	98886,05354,48249 2,59934,18670	6 64355,78630 786,87445	6 71839,72106 778,09887	9,99513,50449,2760 1,14161,1609	10,82240,07219 51,46907	26:24
43	98883,45420,29579 2,60235,40292	6 63568,91185 785,05393	6 71061,62219 776,27823	9,99512,36288,1151 1,14296,4590	10,82188,60312 51,41085	25:48
42	98880,85184,89287 2,60536,61123	6 62783,85792 783,23976	6 70285,34396 774,46396	9,99511,21991,6561 1,14431,7643	10,82137,19227 51,35277	25:12
41	98878,24648,28164 2,60837,81158	6 62000,61816 781,43193	6 69510,88000 772,65600	9,99510,07559,8918 1,14567,0766	10,82085,83950 51,29482	24:36
40	98875,63810,47006 2,61139,00400	6 61219,18623 779,63039	6 68738,22400 770,85435	9,99508,92992,8152 1,14702,3961	10,82034,54468 51,23701	24: 0
39	98873,02671,46606 2,61440,18847	6 60439,55584 777,83513	6 67967,36965 769,05897	9,99507,78290,4191 1,14837,7229	10,81983,30767 51,17934	23:24
38	98870,41231,27759 2,61741,36496	6 59661,72071 776,04610	6 67198,31068 767,26983	9,99506,63452,6962 1,14973,0566	10,81932,12833 51,12180	22:48
37	98867,79489,91263 2,62042,53349	6 58885,67461 774,26328	6 66431,04085 765,48690	9,99505,48479,6396 1,15108,3976	10,81881,00653 51,06440	22:12
36	98865,17447,37914 2,62343,69403	6 58111,41133 772,48666	6 65665,55395 763,71015	9,99504,33371,2420 1,15243,7458	10,81829,94213 51,00713	21:36
35	98862,55103,68511 2,62644,84658	6 57338,92467 770,71618	6 64901,84380 761,93957	9,99503,18127,4962 1,15379,1012	10,81778,93500 50,95000	21: 0
34	98859,92458,83853 2,62945,99114	6 56568,20849 768,95184	6 64139,90423 760,17509	9,99502,02748,3950 1,15514,4637	10,81727,98500 50,89299	20:24

8. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	15074,32253,47543	15248,56867	1 01155,91355	9,17823,78033,3099	9,18322,90799	40:12
	17,25362,32134	17,85959	2,69375	49,67963,4927	50,83614	
68	15091,57615,79677	15266,42826	1 01158,60730	9,17873,45996,8026	9,18373,74413	40:48
	17,25316,34978	17,86054	2,69698	49,62154,9106	50,77940	
69	15108,82932,14655	15284,28880	1 01161,30428	9,17923,08151,7132	9,18424,52353	41:24
	17,25270,32564	17,86150	2,70021	49,56359,5868	50,72280	
70	15126,08202,47219	15302,15030	1 01164,00449	9,17972,64511,3000	9,18475,24633	42: 0
	17,25224,24897	17,86245	2,70343	49,50577,4758	50,66633	
71	15143,33426,72116	15320,01275	1 01166,70792	9,18022,15088,7758	9,18525,91266	42:36
	17,25178,11973	17,86340	2,70665	49,44808,5320	50,61000	
72	15160,58604,84089	15337,87615	1 01169,41457	9,18071,59897,3078	9,18576,52266	43:12
	17,25131,93794	17,86436	2,70988	49,39052,7100	50,55380	
73	15177,83736,77883	15355,74051	1 01172,12445	9,18120,98950,0178	9,18627,07646	43:48
	17,25085,70361	17,86532	2,71311	49,33309,9649	50,49772	
74	15195,08822,48244	15373,60583	1 01174,83756	9,18170,32259,9827	9,18677,57418	44:24
	17,25039,41673	17,86628	2,71634	49,27580,2518	50,44178	
75	15212,33861,89917	15391,47211	1 01177,55390	9,18219,59840,2345	9,18728,01596	45: 0
	17,24993,07729	17,86723	2,71957	49,21863,5261	50,38597	
76	15229,58854,97646	15409,33934	1 01180,27347	9,18268,81703,7606	9,18778,40193	45:36
	17,24946,68531	17,86820	2,72279	49,16159,7431	50,33028	
77	15246,83801,66177	15427,20754	1 01182,99626	9,18317,97863,5037	9,18828,73221	46:12
	17,24900,24078	17,86916	2,72602	49,10468,8589	50,27473	
78	15264,08701,90255	15445,07670	1 01185,72228	9,18367,08332,3626	9,18879,00694	46:48
	17,24853,74372	17,87012	2,72926	49,04790,8292	50,21930	
79	15281,33555,64627	15462,94682	1 01188,45154	9,18416,13123,1918	9,18929,22624	47:24
	17,24807,19411	17,87109	2,73248	48,99125,6102	50,16400	
80	15298,58362,84038	15480,81791	1 01191,18402	9,18465,12248,8020	9,18979,39024	48: 0
	17,24760,59196	17,87206	2,73571	48,93473,1583	50,10884	
81	15315,83123,43234	15498,68997	1 01193,91973	9,18514,05721,9603	9,19029,49908	48:36
	17,24713,93727	17,87302	2,73894	48,87833,4300	50,05379	
82	15333,07837,36961	15516,56299	1 01196,65867	9,18562,93555,3903	9,19079,55287	49:12
	17,24667,23004	17,87398	2,74218	48,82206,3822	49,99887	
83	15350,32504,59965	15534,43697	1 01199,40085	9,18611,75761,7725	9,19129,55174	49:48
	17,24620,47027	17,87496	2,74540	48,76591,9715	49,94409	
84	15367,57125,06992	15552,31193	1 01202,14625	9,18660,52353,7440	9,19179,49583	50:24
	17,24573,65798	17,87593	2,74864	48,70990,1554	49,88943	
85	15384,81698,72790	15570,18786	1 01204,89489	9,18709,23343,8994	9,19229,38526	51: 0
	17,24526,79315	17,87690	2,75187	48,65400,8910	49,83488	
86	15402,06225,52105	15588,06476	1 01207,64676	9,18757,88744,7904	9,19279,22014	51:36
	17,24479,87578	17,87787	2,75510	48,59824,1359	49,78048	
87	15419,30705,39683	15605,94263	1 01210,40186	9,18806,48568,9263	9,19329,00062	52:12
	17,24432,90588	17,87885	2,75834	48,54259,8479	49,72618	
88	15436,55138,30271	15623,82148	1 01213,16020	9,18855,02828,7742	9,19378,72680	52:48
	17,24385,88346	17,87982	2,76157	48,48707,9847	49,67202	
89	15453,79524,18617	15641,70130	1 01215,92177	9,18903,51536,7589	9,19428,39882	53:24
	17,24338,80851	17,88080	2,76480	48,43168,5045	49,61799	
90	15471,03862,99468	15659,58210	1 01218,68657	9,18951,94705,2634	9,19478,01681	54: 0
	17,24291,68103	17,88178	2,76804	48,37641,3656	49,56406	
91	15488,28154,67571	15677,46388	1 01221,45461	9,19000,32346,6290	9,19527,58087	54:36
	17,24244,50103	17,88275	2,77127	48,32126,5265	49,51028	
92	15505,52399,17674	15695,34663	1 01224,22588	9,19048,64473,1555	9,19577,09115	55:12
	17,24197,26850	17,88373	2,77451	48,26623,9458	49,45660	
93	15522,76596,44524	15713,23036	1 01227,00039	9,19096,91097,1013	9,19626,54775	55:48
	17,24149,98345	17,88472	2,77775	48,21133,5823	49,40306	
94	15540,00746,42869	15731,11508	1 01229,77814	9,19145,12230,6836	9,19675,95081	56:24
	17,24102,64588	17,88570	2,78098	48,15655,3951	49,34963	
95	15557,24849,07457	15749,00078	1 01232,55912	9,19193,27886,0787	9,19725,30044	57: 0
	17,24055,25579	17,88668	2,78421	48,10189,3433	49,29632	
96	15574,48904,33036	15766,88746	1 01235,34333	9,19241,38075,4220	9,19774,59676	57:36
	17,24007,81319	17,88766	2,78746	48,04735,3865	49,24314	
97	15591,72912,14355	15784,77512	1 01238,13079	9,19289,42810,8085	9,19823,83990	58:12
	17,23960,31806	17,88865	2,79069	47,99293,4840	49,19008	
98	15608,96872,46161	15802,66377	1 01240,92148	9,19337,42104,2925	9,19873,02998	58:48
	17,23912,77042	17,88964	2,79393	47,93863,5958	49,13714	
99	15626,20785,23203	15820,55341	1 01243,71541	9,19385,35967,8883	9,19922,16712	59:24
	17,23865,17028	17,89062	2,79717	47,88445,6816	49,08431	
100	15643,44650,40231	15838,44403	1 01246,51258	9,19433,24413,5699	9,19971,25143	60: 0
	17,23817,51761	17,89162	2,80041	47,83039,7017	49,03161	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	98857,29512,84739 2,63247,12767	6 55799,25665 767,19358	6 63379,72914 758,41674	9,99500,87233,9313 1,15649,8334	10,81677,09201 50,83614	19:48
32	98854,66265,71972 2,63548,25620	6 55032,06307 765,44141	6 62621,31240 756,66444	9,99499,71584,0979 1,15785,2104	10,81626,25587 50,77940	19:12
31	98852,02717,46352 2,63849,37668	6 54266,62166 763,69526	6 61864,64796 754,91818	9,99498,55798,8875 1,15920,5946	10,81575,47647 50,72280	18:36
30	98849,38868,08684 2,64150,48915	6 53502,92640 761,95515	6 61109,72978 753,17794	9,99497,39878,2929 1,16055,9859	10,81524,75367 50,66633	18: 0
29	98846,74717,59769 2,64451,59356	6 52740,97125 760,22100	6 60356,55184 751,44370	9,99496,23822,3070 1,16191,3846	10,81474,08734 50,61000	17:24
28	98844,10266,00413 2,64752,68991	6 51980,75025 758,49284	6 59605,10814 749,71539	9,99495,07630,9224 1,16326,7905	10,81423,47734 50,55380	16:48
27	98841,45513,31422 2,65053,77820	6 51222,25741 756,77058	6 58855,39275 747,99304	9,99493,91304,1319 1,16462,2036	10,81372,92354 50,49772	16:12
26	98838,80459,53602 2,65354,85841	6 50465,48683 755,05425	6 58107,39971 746,27658	9,99492,74841,9283 1,16597,6240	10,81322,42582 50,44178	15:36
25	98836,15104,67761 2,65655,93055	6 49710,43258 753,34379	6 57361,12313 744,56600	9,99491,58244,3043 1,16733,0517	10,81271,98404 50,38597	15: 0
24	98833,49448,74706 2,65956,99459	6 48957,08879 751,63918	6 56616,55713 742,86128	9,99490,41511,2526 1,16868,4866	10,81221,59807 50,33028	14:24
23	98830,83491,75247 2,66258,05053	6 48205,44961 749,94039	6 55873,69585 741,16237	9,99489,24642,7660 1,17003,9289	10,81171,26779 50,27473	13:48
22	98828,17233,70194 2,66559,09835	6 47455,50922 748,24740	6 55132,53348 739,46927	9,99488,07638,8371 1,17139,3784	10,81120,99306 50,21930	13:12
21	98825,50674,60359 2,66860,13806	6 46707,26182 746,56020	6 54393,06421 737,78194	9,99486,90499,4587 1,17274,8352	10,81070,77376 50,16400	12:36
20	98822,83814,46553 2,67161,16964	6 45960,70162 744,87872	6 53655,28227 736,10035	9,99485,73224,6235 1,17410,2994	10,81020,60976 50,10884	12: 0
19	98820,16653,29589 2,67462,19309	6 45215,82290 743,20297	6 52919,18192 734,42448	9,99484,55814,3241 1,17545,7709	10,80970,50092 50,05379	11:24
18	98817,49191,10280 2,67763,20837	6 44472,61993 741,53291	6 52184,75744 732,75430	9,99483,38268,5532 1,17681,2497	10,80920,44713 49,99887	10:48
17	98814,81427,89443 2,68064,21551	6 43731,08702 739,86853	6 51452,00314 731,08980	9,99482,20587,3035 1,17816,7358	10,80870,44826 49,94409	10:12
16	98812,13363,67892 2,68365,21449	6 42991,21849 738,20978	6 50720,91334 729,43094	9,99481,02770,5677 1,17952,2294	10,80820,50417 49,88943	9:36
15	98809,44998,46443 2,68666,20528	6 42253,00871 736,55666	6 49991,48240 727,77769	9,99479,84818,3383 1,18087,7302	10,80770,61474 49,83488	9: 0
14	98806,76332,25915 2,68967,18789	6 41516,45205 734,90911	6 49263,70471 726,13003	9,99478,66730,6081 1,18223,2385	10,80720,77986 49,78048	8:24
13	98804,07365,07126 2,69268,16231	6 40781,54294 733,26715	6 48537,57468 724,48794	9,99477,48507,3696 1,18358,7541	10,80670,99938 49,72618	7:48
12	98801,38096,90895 2,69569,12853	6 40048,27579 731,63071	6 47813,08674 722,85140	9,99476,30148,6155 1,18494,2771	10,80621,27320 49,67202	7:12
11	98798,68527,78042 2,69870,08653	6 39316,64508 729,99980	6 47090,23534 721,22036	9,99475,11654,3384 1,18629,8075	10,80571,60118 49,61799	6:36
10	98795,98657,69389 2,70171,03632	6 38586,64528 728,37438	6 46369,01498 719,59482	9,99473,93024,5309 1,18765,3452	10,80521,98319 49,56406	6: 0
9	98793,28486,65757 2,70471,97787	6 37858,27090 726,75442	6 45649,42016 717,97474	9,99472,74259,1857 1,18900,8906	10,80472,41913 49,51028	5:24
8	98790,58014,67970 2,70772,91118	6 37131,51648 725,13991	6 44931,44542 716,36011	9,99471,55358,2951 1,19036,4431	10,80422,90885 49,45660	4:48
7	98787,87241,76852 2,71073,83626	6 36406,37657 723,53082	6 44215,08531 714,75090	9,99470,36321,8520 1,19172,0032	10,80373,45225 49,40306	4:12
6	98785,16167,93226 2,71374,75306	6 35682,84575 721,92711	6 43500,33441 713,14708	9,99469,17149,8488 1,19307,5708	10,80324,04919 49,34963	3:36
5	98782,44793,17920 2,71675,66161	6 34960,91864 720,32878	6 42787,18733 711,54862	9,99467,97842,2780 1,19443,1457	10,80274,69956 49,29632	3: 0
4	98779,73117,51759 2,71976,56188	6 34240,58986 718,73580	6 42075,63871 709,95553	9,99466,78399,1323 1,19578,7281	10,80225,40324 49,24314	2:24
3	98777,01140,95571 2,72277,45385	6 33521,85406 717,14814	6 41365,68318 708,36773	9,99465,58820,4042 1,19714,3180	10,80176,16010 49,19008	1:48
2	98774,28863,50186 2,72578,33755	6 32804,70592 715,56577	6 40657,31545 706,78526	9,99464,39106,0862 1,19849,9153	10,80126,97002 49,13714	1:12
1	98771,56285,16431 2,72879,21293	6 32089,14015 713,98868	6 39950,53019 705,20804	9,99463,19256,1709 1,19985,5202	10,80077,83288 49,08431	0:36
0	98768,83405,95138 2,73180,08001	6 31375,15147 712,41685	6 39245,32215 703,63608	9,99461,99270,6507 1,20121,1325	10,80028,74857 49,03161	0: 0

GRAD. 81.

9. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	15643,44650,40231 17,23817,51761	15838,44403 17,89162	1 01246,51258 2,80041	9,19433,24413,5699 47,83039,7017	9,19971,25143 49,03161	0: 0
1	15660,68467,91992 17,23769,81244	15856,33565 17,89260	1 01249,31299 2,80364	9,19481,07453,2716 47,77645,6162	9,20020,28304 48,97902	0:36
2	15677,92237,73236 17,23722,05475	15874,22825 17,89360	1 01252,11663 2,80689	9,19528,85098,8878 47,72263,3857	9,20069,26206 48,92656	1:12
3	15695,15959,78711 17,23674,24457	15892,12185 17,89459	1 01254,92352 2,81013	9,19576,57362,2735 47,66892,9709	9,20118,18862 48,87421	1:48
4	15712,39634,03168 17,23626,38187	15910,01644 17,89558	1 01257,73365 2,81336	9,19624,24255,2444 47,61534,3324	9,20167,06283 48,82198	2:24
5	15729,63260,41355 17,23578,46666	15927,91202 17,89658	1 01260,54701 2,81661	9,19671,85789,5768 47,56187,4313	9,20215,88481 48,76987	3: 0
6	15746,86838,88021 17,23530,49897	15945,80860 17,89757	1 01263,36362 2,81985	9,19719,41977,0081 47,50852,2287	9,20264,65468 48,71787	3:36
7	15764,10369,37918 17,23482,47876	15963,70617 17,89857	1 01266,18347 2,82309	9,19766,92829,2368 47,45528,6860	9,20313,37255 48,66599	4:12
8	15781,33851,85794 17,23434,40605	15981,60474 17,89957	1 01269,00656 2,82634	9,19814,38357,9228 47,40216,7646	9,20362,03854 48,61423	4:48
9	15798,57286,26399 17,23386,28085	15999,50431 17,90057	1 01271,83290 2,82957	9,19861,78574,6874 47,34916,4263	9,20410,65277 48,56259	5:24
10	15815,80672,54484 17,23338,10314	16017,40488 17,90157	1 01274,66247 2,83282	9,19909,13491,1137 47,29627,6329	9,20459,21536 48,51105	6: 0
11	15833,04010,64798 17,23289,87295	16035,30645 17,90257	1 01277,49529 2,83607	9,19956,43118,7466 47,24350,3462	9,20507,72641 48,45964	6:36
12	15850,27300,52093 17,23241,59025	16053,20902 17,90358	1 01280,33136 2,83931	9,20003,67469,0928 47,19084,5286	9,20556,18605 48,40833	7:12
13	15867,50542,11118 17,23193,25507	16071,11260 17,90458	1 01283,17067 2,84255	9,20050,86553,6214 47,13830,1424	9,20604,59438 48,35715	7:48
14	15884,73735,36625 17,23144,86739	16089,01718 17,90558	1 01286,01322 2,84580	9,20098,00383,7638 47,08587,1500	9,20652,95153 48,30608	8:24
15	15901,96880,23364 17,23096,42723	16106,92276 17,90659	1 01288,85902 2,84904	9,20145,08970,9138 47,03355,5141	9,20701,25761 48,25512	9: 0
16	15919,19976,66087 17,23047,93457	16124,82935 17,90760	1 01291,70806 2,85229	9,20192,12326,4279 46,98135,1976	9,20749,51273 48,20427	9:36
17	15936,43024,59544 17,22999,38942	16142,73695 17,90861	1 01294,56035 2,85554	9,20239,10461,6255 46,92926,1634	9,20797,71700 48,15354	10:12
18	15953,66023,98486 17,22950,79180	16160,64556 17,90962	1 01297,41589 2,85878	9,20286,03387,7889 46,87728,3746	9,20845,87054 48,10291	10:48
19	15970,88974,77666 17,22902,14169	16178,55518 17,91063	1 01300,27467 2,86203	9,20332,91116,1635 46,82541,7946	9,20893,97345 48,05241	11:24
20	15988,11876,91835 17,22853,43909	16196,46581 17,91165	1 01303,13670 2,86528	9,20379,73657,9581 46,77366,3869	9,20942,025586 48,00202	12: 0
21	16005,34730,35744 17,22804,68402	16214,37746 17,91265	1 01306,00198 2,86852	9,20426,51024,3450 46,72202,1151	9,20990,02788 47,95173	12:36
22	16022,57535,04146 17,22755,87646	16232,29011 17,91367	1 01308,87050 2,87178	9,20473,23226,4601 46,67048,9429	9,21037,97961 47,90155	13:12
23	16039,80290,91792 17,22707,01642	16250,20378 17,91469	1 01311,74228 2,87502	9,20519,90275,4030 46,61906,8343	9,21085,88116 47,85149	13:48
24	16057,02997,93434 17,22658,10392	16268,11847 17,91571	1 01314,61730 2,87827	9,20566,52182,2373 46,56775,7534	9,21133,73265 47,80154	14:24
25	16074,25656,03826 17,22609,13893	16286,03418 17,91672	1 01317,49557 2,88153	9,20613,08957,9907 46,51655,6644	9,21181,53419 47,75170	15: 0
26	16091,48265,17719 17,22560,12147	16303,95090 17,91775	1 01320,37710 2,88477	9,20659,60613,6551 46,46546,5319	9,21229,28589 47,70196	15:36
27	16108,70825,29866 17,22511,05155	16321,86865 17,91876	1 01323,26187 2,88803	9,20706,07160,1870 46,41448,3201	9,21276,98785 47,65234	16:12
28	16125,93336,35021 17,22461,92913	16339,78741 17,91979	1 01326,14990 2,89127	9,20752,48608,5071 46,36360,9941	9,21324,64019 47,60282	16:48
29	16143,15798,27934 17,22412,75427	16357,70720 17,92081	1 01329,04117 2,89453	9,20798,84969,5012 46,31284,5185	9,21372,24301 47,55342	17:24
30	16160,38211,03361 17,22363,52693	16375,62801 17,92183	1 01331,93570 2,89778	9,20845,16254,0197 46,26218,8584	9,21419,79643 47,50412	18: 0
31	16177,60574,56054 17,22314,24712	16393,54984 17,92286	1 01334,83348 2,90103	9,20891,42472,8781 46,21163,9789	9,21467,30055 47,45492	18:36
32	16194,82888,80766 17,22264,91486	16411,47270 17,92389	1 01337,73451 2,90429	9,20937,63636,8570 46,16119,8456	9,21514,75547 47,40585	19:12
33	16212,05153,72252 17,22215,53012	16429,39659 17,92492	1 01340,63880 2,90754	9,20983,79756,7026 46,11086,4235	9,21562,16132 47,35687	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	98768,83405,95138 2,73180,08001	6 31375,15147 712,41685	6 39245,32215 703,63608	9,99461,99270,6507 1,20121,1325	10,80028,74857 49,03161	60: 0
99	98766,10225,87137 2,73480,93875	6 30662,73462 710,85023	6 38541,68607 702,06936	9,99460,79149,5182 1,20256,7524	10,79979,71696 48,97902	59:24
98	98763,36744,93262 2,73781,78918	6 29951,88439 709,28883	6 37839,61671 700,50782	9,99459,58892,7658 1,20392,3797	10,79930,73794 48,92656	58:48
97	98760,62963,14344 2,74082,63126	6 29242,59556 707,73260	6 37139,10889 698,95149	9,99458,38500,3861 1,20528,0146	10,79881,81138 48,87421	58:12
96	98757,88880,51218 2,74383,46499	6 28534,86296 706,18154	6 36440,15740 697,40030	9,99457,17972,3715 1,20663,6570	10,79832,93717 48,82198	57:36
95	98755,14497,04719 2,74684,29037	6 27828,68142 704,63561	6 35742,75710 695,85424	9,99455,97308,7145 1,20799,3069	10,79784,11519 48,76987	57: 0
94	98752,39812,75682 2,74985,10737	6 27124,04581 703,09480	6 35046,90286 694,31332	9,99454,76509,4076 1,20934,9644	10,79735,34532 48,71787	56:24
93	98749,64827,64945 2,75285,91600	6 26420,95101 701,55908	6 34352,58954 692,77746	9,99453,55574,4432 1,21070,6294	10,79686,62745 48,66599	55:48
92	98746,89541,73345 2,75586,71624	6 25719,39193 700,02842	6 33659,81208 691,24669	9,99452,34503,8138 1,21206,3020	10,79637,96146 48,61423	55:12
91	98744,13955,01721 2,75887,50810	6 25019,36351 698,50281	6 32968,56539 689,72097	9,99451,13297,5118 1,21341,9822	10,79589,34723 48,56259	54:36
90	98741,38067,50911 2,76188,29154	6 24320,86070 696,98223	6 32278,84442 688,20025	9,99449,91955,5296 1,21477,6700	10,79540,78464 48,51105	54: 0
89	98738,61879,21757 2,76489,06657	6 23623,87847 695,46664	6 31590,64417 686,68455	9,99448,70477,8596 1,21613,3653	10,79492,27359 48,45964	53:24
88	98735,85390,15100 2,76789,83318	6 22928,41183 693,95605	6 30903,95962 685,17383	9,99447,48864,4943 1,21749,0682	10,79443,81395 48,40833	52:48
87	98733,08600,31782 2,77090,59136	6 22234,45578 692,45040	6 30218,78579 683,66806	9,99446,27115,4261 1,21884,7788	10,79395,40562 48,35715	52:12
86	98730,31509,72646 2,77391,34109	6 21542,00538 690,94970	6 29535,11773 682,16724	9,99445,05230,6473 1,22020,4970	10,79347,04847 48,30608	51:36
85	98727,54118,38537 2,77692,08239	6 20851,05568 689,45390	6 28852,95049 680,67132	9,99443,83210,1503 1,22156,2228	10,79298,74239 48,25512	51: 0
84	98724,76426,30298 2,77992,81521	6 20161,60178 687,96301	6 28172,27917 679,18030	9,99442,61053,9275 1,22291,9562	10,79250,48727 48,20427	50:24
83	98721,98433,48777 2,78293,53958	6 19473,63877 686,47698	6 27493,09887 677,69415	9,99441,38761,9713 1,22427,6973	10,79202,28300 48,15354	49:48
82	98719,20139,94819 2,78594,25546	6 18787,16179 684,99581	6 26815,40472 676,21286	9,99440,16334,2740 1,22563,4460	10,79154,12946 48,10291	49:12
81	98716,41545,69273 2,78894,96285	6 18102,16598 683,51947	6 26139,19186 674,73639	9,99438,93770,8280 1,22699,2024	10,79106,02655 48,05241	48:36
80	98713,62650,72988 2,79195,66176	6 17418,64651 682,04793	6 25464,45547 673,26473	9,99437,71071,6256 1,22834,9665	10,79057,97414 48,00202	48: 0
79	98710,83455,06812 2,79496,35215	6 16736,59858 680,58119	6 24791,19074 671,79786	9,99436,48236,6591 1,22970,7382	10,79009,97212 47,95173	47:24
78	98708,03958,71597 2,79797,03403	6 16056,01739 679,11921	6 24119,39288 670,33577	9,99435,25265,9209 1,23106,5176	10,78962,02039 47,90155	46:48
77	98705,24161,68194 2,80097,70740	6 15376,89818 677,66198	6 23449,05711 668,87841	9,99434,02159,4033 1,23242,3048	10,78914,11884 47,85149	46:12
76	98702,44063,97454 2,80398,37222	6 14699,23620 676,20947	6 22780,17870 667,42578	9,99432,78917,0985 1,23378,0997	10,78866,26735 47,80154	45:36
75	98699,63665,60232 2,80699,02851	6 14023,02673 674,76168	6 22112,75292 665,97785	9,99431,55538,9988 1,23513,9021	10,78818,46581 47,75170	45: 0
74	98696,82966,57381 2,80999,67624	6 13348,26505 673,31856	6 21446,77507 664,53462	9,99430,32025,0967 1,23649,7125	10,78770,71411 47,70196	44:24
73	98694,01966,89757 2,81300,31542	6 12674,94649 671,88012	6 20782,24045 663,09605	9,99429,08375,3842 1,23785,5305	10,78723,01215 47,65234	43:48
72	98691,20666,58215 2,81600,94602	6 12003,06637 670,44631	6 20119,14440 661,66212	9,99427,84589,8537 1,23921,3562	10,78675,35981 47,60282	43:12
71	98688,39065,63613 2,81901,56806	6 11332,62006 669,01714	6 19457,48228 660,23283	9,99426,60668,4975 1,24057,1898	10,78627,75699 47,55342	42:36
70	98685,57164,06807 2,82202,18149	6 10663,60292 667,59257	6 18797,24945 658,80812	9,99425,36611,3077 1,24193,0310	10,78580,20357 47,50412	42: 0
69	98682,74961,88658 2,82502,78634	6 09996,01035 666,17258	6 18138,44133 657,38802	9,99424,12418,2767 1,24328,8800	10,78532,69945 47,45492	41:24
68	98679,92459,10024 2,82803,38258	6 09329,83777 664,75716	6 17481,05331 655,97247	9,99422,88089,3967 1,24464,7369	10,78485,24453 47,40585	40:48
67	98677,09655,71766 2,83103,97020	6 08665,08061 663,34629	6 16825,08084 654,56148	9,99421,63624,6598 1,24600,6014	10,78437,83868 47,35687	40:12

GRAD. 80.

9. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	16212,05153,72252 17,22215,53012	16429,39659 17,92492	1 01340,63880 2,90754	9,20983,79756,7026 46,11086,4235	9,21562,16132 47,35687	19:48
34	16229,27369,25264 17,22166,09292	16447,32151 17,92594	1 01343,54634 2,91079	9,21029,90843,1261 46,06063,6786	9,21609,51819 47,30800	20:24
35	16246,49535,34556 17,22116,60328	16465,24745 17,92697	1 01346,45713 2,91405	9,21075,96906,8047 46,01051,5765	9,21656,82619 47,25924	21: 0
36	16263,71651,94884 17,22067,06115	16483,17442 17,92801	1 01349,37118 2,91731	9,21121,97958,3812 45,96050,0831	9,21704,08543 47,21058	21:36
37	16280,93719,00999 17,22017,46659	16501,10243 17,92904	1 01352,28849 2,92056	9,21167,94008,4643 45,91059,1644	9,21751,29601 47,16204	22:12
38	16298,15736,47658 17,21967,81956	16519,03147 17,93007	1 01355,20905 2,92381	9,21213,85067,6287 45,86078,7868	9,21798,45805 47,11359	22:48
39	16315,37704,29614 17,21918,12008	16536,96154 17,93111	1 01358,13286 2,92707	9,21259,71146,4155 45,81108,9164	9,21845,57164 47,06524	23:24
40	16332,59622,41622 17,21868,36815	16554,89265 17,93214	1 01361,05993 2,93033	9,21305,52255,3319 45,76149,5198	9,21892,63688 47,01702	24: 0
41	16349,81490,78437 17,21818,56376	16572,82479 17,93318	1 01363,99026 2,93359	9,21351,28404,8517 45,71200,5636	9,21939,65390 46,96888	24:36
42	16367,03309,34813 17,21768,70693	16590,75797 17,93422	1 01366,92385 2,93684	9,21396,99605,4153 45,66262,0146	9,21986,62278 46,92086	25:12
43	16384,25078,05506 17,21718,79765	16608,69219 17,93526	1 01369,86069 2,94010	9,21442,65867,4299 45,61333,8397	9,22033,54364 46,87293	25:48
44	16401,46796,85271 17,21668,83592	16626,62745 17,93630	1 01372,80079 2,94336	9,21488,27201,2696 45,56416,0059	9,22080,41657 46,82512	26:24
45	16418,68465,68863 17,21618,82175	16644,56375 17,93734	1 01375,74415 2,94662	9,21533,83617,2755 45,51508,4804	9,22127,24169 46,77740	27: 0
46	16435,90084,51038 17,21568,75512	16662,50109 17,93839	1 01378,69077 2,94988	9,21579,35125,7559 45,46611,2305	9,22174,01909 46,72979	27:36
47	16453,11653,26550 17,21518,63607	16680,43948 17,93943	1 01381,64065 2,95314	9,21624,81736,9864 45,41724,2238	9,22220,74888 46,68228	28:12
48	16470,33171,90157 17,21468,46457	16698,37891 17,94048	1 01384,59379 2,95640	9,21670,23461,2102 45,36847,4277	9,22267,43116 46,63487	28:48
49	16487,54640,36614 17,21418,24064	16716,31939 17,94152	1 01387,55019 2,95966	9,21715,60308,6379 45,31980,8101	9,22314,06603 46,58756	29:24
50	16504,76058,60678 17,21367,96425	16734,26091 17,94257	1 01390,50985 2,96293	9,21760,92289,4480 45,27124,3389	9,22360,65359 46,54036	30: 0
51	16521,97426,57103 17,21317,63545	16752,20348 17,94362	1 01393,47278 2,96618	9,21806,19413,7869 45,22277,9818	9,22407,19395 46,49325	30:36
52	16539,18744,20648 17,21267,25420	16770,14710 17,94467	1 01396,43896 2,96945	9,21851,41691,7687 45,17441,7073	9,22453,68720 46,44626	31:12
53	16556,40011,46068 17,21216,82052	16788,09177 17,94572	1 01399,40841 2,97271	9,21896,59133,4760 45,12615,4835	9,22500,13346 46,39935	31:48
54	16573,61228,28120 17,21166,33441	16806,03749 17,94678	1 01402,38112 2,97597	9,21941,71748,9595 45,07799,2788	9,22546,53281 46,35254	32:24
55	16590,82394,61561 17,21115,79587	16823,98427 17,94783	1 01405,35709 2,97924	9,21986,79548,2383 45,02993,0619	9,22592,88535 46,30585	33: 0
56	16608,03510,41148 17,21065,20490	16841,93210 17,94888	1 01408,33633 2,98250	9,22031,82541,3002 44,98196,8013	9,22639,19120 46,25925	33:36
57	16625,24575,61638 17,21014,56151	16859,88098 17,94994	1 01411,31883 2,98577	9,22076,80738,1015 44,93410,4658	9,22685,45045 46,21274	34:12
58	16642,45590,17789 17,20963,86569	16877,83092 17,95100	1 01414,30460 2,98903	9,22121,74148,5673 44,88634,0244	9,22731,66319 46,16634	34:48
59	16659,66554,04358 17,20913,11744	16895,78192 17,95206	1 01417,29363 2,99229	9,22166,62782,5917 44,83867,4462	9,22777,82953 46,12003	35:24
60	16676,87467,16102 17,20862,31678	16913,73398 17,95311	1 01420,28592 2,99557	9,22211,46650,0379 44,79110,7004	9,22823,94956 46,07382	36: 0
61	16694,08329,47780 17,20811,46370	16931,68709 17,95418	1 01423,28149 2,99883	9,22256,25760,7383 44,74363,7561	9,22870,02338 46,02772	36:36
62	16711,29140,94150 17,20760,55819	16949,64127 17,95524	1 01426,28032 3,00210	9,22301,00124,4944 44,69626,5830	9,22916,05110 45,98171	37:12
63	16728,49901,49969 17,20709,60027	16967,59651 17,95630	1 01429,28242 3,00536	9,22345,69751,0774 44,64899,1507	9,22962,03281 45,93579	37:48
64	16745,70611,09996 17,20658,58993	16985,55281 17,95737	1 01432,28778 3,00863	9,22390,34650,2281 44,60181,4286	9,23007,96860 45,88998	38:24
65	16762,91269,68989 17,20607,52717	17003,51018 17,95844	1 01435,29641 3,01191	9,22434,94831,6567 44,55473,3868	9,23053,85858 45,84426	39: 0
66	16780,11877,21706 17,20556,41202	17021,46862 17,95950	1 01438,30832 3,01517	9,22479,50305,0435 44,50774,9951	9,23099,70284 45,79863	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98677,09655,71766 2,83103,97020	6 08665,08061 663,34629	6 16825,08084 654,56148	9,99421,63624,6598 1,24600,6014	10,78437,83868 47,35687	40:12
66	98674,26551,74746 2,83404,54921	6 08001,73432 661,93995	6 16170,51936 653,15500	9,99420,39024,0584 1,24736,4739	10,78390,48181 47,30800	39:36
65	98671,43147,19825 2,83705,11957	6 07339,79437 660,53811	6 15517,36436 651,75305	9,99419,14287,5845 1,24872,3541	10,78343,17381 47,25924	39: 0
64	98668,59442,07868 2,84005,68130	6 06679,25626 659,14076	6 14865,61131 650,35556	9,99417,89415,2304 1,25008,2421	10,78295,91457 47,21058	38:24
63	98665,75436,39738 2,84306,23437	6 06020,11550 657,74788	6 14215,25575 648,96257	9,99416,64406,9883 1,25144,1379	10,78248,70399 47,16204	37:48
62	98662,91130,16301 2,84606,77879	6 05362,36762 656,35945	6 13566,29318 647,57401	9,99415,39262,8504 1,25280,0416	10,78201,54195 47,11359	37:12
61	98660,06523,38422 2,84907,31453	6 04706,00817 654,97546	6 12918,71917 646,18988	9,99414,13982,8088 1,25415,9531	10,78154,42836 47,06524	36:36
60	98657,21616,06969 2,85207,84159	6 04051,03271 653,59587	6 12272,52929 644,81018	9,99412,88566,8557 1,25551,8725	10,78107,36312 47,01702	36: 0
59	98654,36408,22810 2,85508,35998	6 03397,43684 652,22068	6 11627,71911 643,43485	9,99411,63014,9832 1,25687,7997	10,78060,34610 46,96888	35:24
58	98651,50899,86812 2,85808,86965	6 02745,21616 650,84986	6 10984,28426 642,06392	9,99410,37327,1835 1,25823,7348	10,78013,37722 46,92086	34:48
57	98648,65090,99847 2,86109,37063	6 02094,36630 649,48341	6 10342,22034 640,69733	9,99409,11503,4487 1,25959,6778	10,77966,45636 46,87293	34:12
56	98645,78981,62784 2,86409,86289	6 01444,88289 648,12128	6 09701,52301 639,33508	9,99407,85543,7709 1,26095,6286	10,77919,58343 46,82512	33:36
55	98642,92571,76495 2,86710,34642	6 00796,76161 646,76348	6 09062,18793 637,97716	9,99406,59448,1423 1,26231,5874	10,77872,75831 46,77740	33: 0
54	98640,05861,41853 2,87010,82122	6 00149,99813 645,40999	6 08424,21077 636,62353	9,99405,33216,5549 1,26367,5540	10,77825,98091 46,72979	32:24
53	98637,18850,59731 2,87311,28728	5 99504,58814 644,06076	6 07787,58724 635,27418	9,99404,06849,0009 1,26503,5286	10,77779,25112 46,68228	31:48
52	98634,31539,31003 2,87611,74459	5 98860,52738 642,71582	6 07152,31306 633,92911	9,99402,80345,4723 1,26639,5110	10,77732,56884 46,63487	31:12
51	98631,43927,56544 2,87912,19313	5 98217,81156 641,37512	6 06518,38395 632,58828	9,99401,53705,9613 1,26775,5015	10,77685,93397 46,58756	30:36
50	98628,56015,37231 2,88212,63290	5 97576,43644 640,03864	6 05885,79567 631,25168	9,99400,26930,4598 1,26911,4999	10,77639,34641 46,54036	30: 0
49	98625,67802,73941 2,88513,06390	5 96936,39780 638,70638	6 05254,54399 629,91929	9,99399,00018,9599 1,27047,5061	10,77592,80605 46,49325	29:24
48	98622,79289,67551 2,88813,48611	5 96297,69142 637,37831	6 04624,62470 628,59109	9,99397,72971,4538 1,27183,5204	10,77546,31280 46,44626	28:48
47	98619,90476,18940 2,89113,89951	5 95660,31311 636,05443	6 03996,03361 627,26708	9,99396,45787,9334 1,27319,5427	10,77499,86654 46,39935	28:12
46	98617,01362,28989 2,89414,30412	5 95024,25868 634,73469	6 03368,76653 625,94722	9,99395,18468,3907 1,27455,5728	10,77453,46719 46,35254	27:36
45	98614,11947,98577 2,89714,69990	5 94389,52399 633,41910	6 02742,81931 624,63150	9,99393,91012,8179 1,27591,6111	10,77407,11465 46,30585	27: 0
44	98611,22233,28587 2,90015,08686	5 93756,10489 632,10764	6 02118,18781 623,31990	9,99392,63421,2068 1,27727,6572	10,77360,80880 46,25925	26:24
43	98608,32218,19901 2,90315,46499	5 93123,99725 630,80028	6 01494,86791 622,01242	9,99391,35693,5496 1,27863,7114	10,77314,54955 46,21274	25:48
42	98605,41902,73402 2,90615,83427	5 92493,19697 629,49701	6 00872,85549 620,70903	9,99390,07829,8382 1,27999,7736	10,77268,33681 46,16634	25:12
41	98602,51286,89975 2,90916,19470	5 91863,69996 628,19781	6 00252,14646 619,40970	9,99388,79830,0646 1,28135,8439	10,77222,17047 46,12003	24:36
40	98599,60370,70505 2,91216,54627	5 91235,50215 626,90268	5 99632,73676 618,11443	9,99387,51694,2207 1,28271,9221	10,77176,05044 46,07382	24: 0
39	98596,69154,15878 2,91516,88896	5 90608,59947 625,61158	5 99014,62233 616,82320	9,99386,23422,2986 1,28408,0083	10,77129,97662 46,02772	23:24
38	98593,77637,26982 2,91817,22279	5 89982,98789 624,32450	5 98397,79913 615,53600	9,99384,95014,2903 1,28544,1027	10,77083,94890 45,98171	22:48
37	98590,85820,04703 2,92117,54771	5 89358,66339 623,04143	5 97782,26313 614,25279	9,99383,66470,1876 1,28680,2051	10,77037,96719 45,93579	22:12
36	98587,93702,49932 2,92417,86374	5 88735,62196 621,76234	5 97168,01034 612,97359	9,99382,37789,9825 1,28816,3156	10,76992,03140 45,88998	21:36
35	98585,01284,63558 2,92718,17086	5 88113,85962 620,48724	5 96555,03675 611,69834	9,99381,08973,6669 1,28952,4340	10,76946,14142 45,84426	21: 0
34	98582,08566,46472 2,93018,46906	5 87493,37238 619,21608	5 95943,33841 610,42706	9,99379,80021,2329 1,29088,5607	10,76900,29716 45,79863	20:24

GRAD. 80.

9. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	16797,32433,62908	17039,42812	1 01441,32349	9,22524,01080,0386	9,23145,50147	40:12
	17,20505,24443	17,96057	3,01844	44,46086,2238	45,75311	
68	16814,52938,87351	17057,38869	1 01444,34193	9,22568,47166,2624	9,23191,25458	40:48
	17,20454,02446	17,96164	3,02171	44,41407,0427	45,70768	
69	16831,73392,89797	17075,35033	1 01447,36364	9,22612,88573,3051	9,23236,96226	41:24
	17,20402,75206	17,96270	3,02498	44,36737,4225	45,66235	
70	16848,93795,65003	17093,31303	1 01450,38862	9,22657,25310,7276	9,23282,62461	42: 0
	17,20351,42725	17,96379	3,02825	44,32077,3336	45,61710	
71	16866,14147,07728	17111,27682	1 01453,41687	9,22701,57388,0612	9,23328,24171	42:36
	17,20300,05006	17,96485	3,03152	44,27426,7462	45,57196	
72	16883,34447,12734	17129,24167	1 01456,44839	9,22745,84814,8074	9,23373,81367	43:12
	17,20248,62044	17,96593	3,03480	44,22785,6315	45,52691	
73	16900,54695,74778	17147,20760	1 01459,48319	9,22790,07600,4389	9,23419,34058	43:48
	17,20197,13844	17,96700	3,03806	44,18153,9599	45,48196	
74	16917,74892,88622	17165,17460	1 01462,52125	9,22834,25754,3988	9,23464,82254	44:24
	17,20145,60403	17,96808	3,04134	44,13531,7026	45,43709	
75	16934,95038,49025	17183,14268	1 01465,56259	9,22878,39286,1014	9,23510,25963	45: 0
	17,20094,01721	17,96916	3,04462	44,08918,8304	45,39233	
76	16952,15132,50746	17201,11184	1 01468,60721	9,22922,48204,9318	9,23555,65196	45:36
	17,20042,37801	17,97024	3,04788	44,04315,3147	45,34766	
77	16969,35174,88547	17219,08208	1 01471,65509	9,22966,52520,2465	9,23600,99962	46:12
	17,19990,68641	17,97132	3,05117	43,99721,1267	45,30308	
78	16986,55165,57188	17237,05340	1 01474,70626	9,23010,52241,3732	9,23646,30270	46:48
	17,19938,94242	17,97239	3,05443	43,95136,2376	45,25858	
79	17003,75104,51430	17255,02579	1 01477,76069	9,23054,47377,6108	9,23691,56128	47:24
	17,19887,14603	17,97349	3,05771	43,90560,6194	45,21420	
80	17020,94991,66033	17272,99928	1 01480,81840	9,23098,37938,2302	9,23736,77548	48: 0
	17,19835,29724	17,97456	3,06099	43,85994,2431	45,16989	
81	17038,14826,95757	17290,97384	1 01483,87939	9,23142,23932,4733	9,23781,94537	48:36
	17,19783,39609	17,97565	3,06427	43,81437,0810	45,12569	
82	17055,34610,35366	17308,94949	1 01486,94366	9,23186,05369,5543	9,23827,07106	49:12
	17,19731,44252	17,97674	3,06754	43,76889,1047	45,08157	
83	17072,54341,79618	17326,92623	1 01490,01120	9,23229,82258,6590	9,23872,15263	49:48
	17,19679,43659	17,97782	3,07081	43,72350,2862	45,03754	
84	17089,74021,23277	17344,90405	1 01493,08201	9,23273,54608,9452	9,23917,19017	50:24
	17,19627,37826	17,97891	3,07410	43,67820,5975	44,99361	
85	17106,93648,61103	17362,88296	1 01496,15611	9,23317,22429,5427	9,23962,18378	51: 0
	17,19575,26755	17,98000	3,07737	43,63300,0111	44,94976	
86	17124,13223,87858	17380,86296	1 01499,23348	9,23360,85729,5538	9,24007,13354	51:36
	17,19523,10446	17,98110	3,08065	43,58788,4990	44,90602	
87	17141,32746,98304	17398,84406	1 01502,31413	9,23404,44518,0528	9,24052,03956	52:12
	17,19470,88899	17,98218	3,08393	43,54286,0339	44,86235	
88	17158,52217,87203	17416,82624	1 01505,39806	9,23447,98804,0867	9,24096,90191	52:48
	17,19418,62114	17,98328	3,08722	43,49792,5880	44,81878	
89	17175,71636,49317	17434,80952	1 01508,48528	9,23491,48596,6747	9,24141,72069	53:24
	17,19366,30093	17,98437	3,09049	43,45308,1344	44,77530	
90	17192,91002,79410	17452,79389	1 01511,57577	9,23534,93904,8091	9,24186,49599	54: 0
	17,19313,92832	17,98547	3,09377	43,40832,6454	44,73190	
91	17210,10316,72242	17470,77936	1 01514,66954	9,23578,34737,4545	9,24231,22789	54:36
	17,19261,50335	17,98656	3,09705	43,36366,0942	44,68861	
92	17227,29578,22577	17488,76592	1 01517,76659	9,23621,71103,5487	9,24275,91650	55:12
	17,19209,02600	17,98766	3,10033	43,31908,4537	44,64539	
93	17244,48787,25177	17506,75358	1 01520,86692	9,23665,03012,0024	9,24320,56189	55:48
	17,19156,49630	17,98877	3,10362	43,27459,6969	44,60227	
94	17261,67943,74807	17524,74235	1 01523,97054	9,23708,30471,6993	9,24365,16416	56:24
	17,19103,91421	17,98986	3,10690	43,23019,7971	44,55923	
95	17278,87047,66228	17542,73221	1 01527,07744	9,23751,53491,4964	9,24409,72339	57: 0
	17,19051,27976	17,99096	3,11018	43,18588,7276	44,51629	
96	17296,06098,94204	17560,72317	1 01530,18762	9,23794,72080,2240	9,24454,23968	57:36
	17,18998,59294	17,99207	3,11347	43,14166,4617	44,47342	
97	17313,25097,53498	17578,71524	1 01533,30109	9,23837,86246,6857	9,24498,71310	58:12
	17,18945,85377	17,99317	3,11675	43,09752,9730	44,43066	
98	17330,44043,38875	17596,70841	1 01536,41784	9,23880,95999,6587	9,24543,14376	58:48
	17,18893,06223	17,99428	3,12003	43,05348,2353	44,38797	
99	17347,62936,45098	17614,70269	1 01539,53787	9,23924,01347,8940	9,24587,53173	59:24
	17,18840,21832	17,99538	3,12332	43,00952,2220	44,34537	
100	17364,81776,66930	17632,69807	1 01542,66119	9,23967,02300,1160	9,24631,87710	60: 0
	17,18787,32207	17,99649	3,12660	42,96564,9072	44,30287	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	98579,15547,99566 2,93318,75835	5 86874,15630 617,94887	5 95332,91135 609,15972	9,99378,50932,6722 1,29224,6954	10,76854,49853 45,75311	19:48
32	98576,22229,23731 2,93619,03869	5 86256,20743 616,68557	5 94723,75163 607,89629	9,99377,21707,9768 1,29360,8382	10,76808,74542 45,70768	19:12
31	98573,28610,19862 2,93919,31008	5 85639,52186 615,42620	5 94115,85534 606,63679	9,99375,92347,1386 1,29496,9892	10,76763,03774 45,66235	18:36
30	98570,34690,88854 2,94219,57254	5 85024,09566 614,17070	5 93509,21855 605,38116	9,99374,62850,1494 1,29633,1481	10,76717,37539 45,61710	18: 0
29	98567,40471,31600 2,94519,82602	5 84409,92496 612,91908	5 92903,83739 604,12941	9,99373,33217,0013 1,29769,3154	10,76671,75829 45,57196	17:24
28	98564,45951,48998 2,94820,07053	5 83797,00588 611,67133	5 92299,70798 602,88153	9,99372,03447,6859 1,29905,4906	10,76626,18633 45,52691	16:48
27	98561,51131,41945 2,95120,30607	5 83185,33455 610,42742	5 91696,82645 601,63748	9,99370,73542,1953 1,30041,6741	10,76580,65942 45,48196	16:12
26	98558,56011,11338 2,95420,53260	5 82574,90713 609,18733	5 91095,18897 600,39727	9,99369,43500,5212 1,30177,8657	10,76535,17746 45,43709	15:36
25	98555,60590,58078 2,95720,75015	5 81965,71980 607,95105	5 90494,79170 599,16086	9,99368,13322,6555 1,30314,0655	10,76489,74037 45,39233	15: 0
24	98552,64869,83063 2,96020,95869	5 81357,76875 606,71858	5 89895,63084 597,92825	9,99366,83008,5900 1,30450,2734	10,76444,34804 45,34766	14:24
23	98549,68848,87194 2,96321,15820	5 80751,05017 605,48988	5 89297,70259 596,69943	9,99365,52558,3166 1,30586,4896	10,76399,00038 45,30308	13:48
22	98546,72527,71374 2,96621,34869	5 80145,56029 604,26495	5 88701,00316 595,47436	9,99364,21971,8270 1,30722,7139	10,76353,69730 45,25858	13:12
21	98543,75906,36505 2,96921,53015	5 79541,29534 603,04377	5 88105,52880 594,25305	9,99362,91249,1131 1,30858,9464	10,76308,43872 45,21420	12:36
20	98540,78984,83490 2,97221,70256	5 78938,25157 601,82632	5 87511,27575 593,03547	9,99361,60390,1667 1,30995,1871	10,76263,22452 45,16989	12: 0
19	98537,81763,13234 2,97521,86591	5 78336,42525 600,61259	5 86918,24028 591,82161	9,99360,29394,9796 1,31131,4361	10,76218,05463 45,12569	11:24
18	98534,84241,26643 2,97822,02021	5 77735,81266 599,40258	5 86326,41867 590,61146	9,99358,98263,5435 1,31267,6932	10,76172,92894 45,08157	10:48
17	98531,86419,24622 2,98122,16543	5 77136,41008 598,19624	5 85735,80721 589,40500	9,99357,66995,8503 1,31403,9587	10,76127,84737 45,03754	10:12
16	98528,88297,08079 2,98422,30158	5 76538,21384 596,99358	5 85146,40221 588,20220	9,99356,35591,8916 1,31540,2324	10,76082,80983 44,99361	9:36
15	98525,89874,77921 2,98722,42862	5 75941,22026 595,79458	5 84558,20001 587,00307	9,99355,04051,6592 1,31676,5142	10,76037,81622 44,94976	9: 0
14	98522,91152,35059 2,99022,54657	5 75345,42568 594,59923	5 83971,19694 585,80759	9,99353,72375,1450 1,31812,8045	10,75992,86646 44,90602	8:24
13	98519,92129,80402 2,99322,65541	5 74750,82645 593,40750	5 83385,38935 584,61573	9,99352,40562,3405 1,31949,1029	10,75947,96044 44,86235	7:48
12	98516,92807,14861 2,99622,75514	5 74157,41895 592,21939	5 82800,77362 583,42748	9,99351,08613,2376 1,32085,4096	10,75903,09809 44,81878	7:12
11	98513,93184,39347 2,99922,84573	5 73565,19956 591,03489	5 82217,34614 582,24285	9,99349,76527,8280 1,32221,7247	10,75858,27931 44,77530	6:36
10	98510,93261,54774 3,00222,92719	5 72974,16467 589,85396	5 81635,10329 581,06179	9,99348,44306,1033 1,32358,0480	10,75813,50401 44,73190	6: 0
9	98507,93038,62055 3,00522,99951	5 72384,31071 588,67661	5 81054,04150 579,88430	9,99347,11948,0553 1,32494,3796	10,75768,77211 44,68861	5:24
8	98504,92515,62104 3,00823,06267	5 71795,63410 587,50282	5 80474,15720 578,71038	9,99345,79453,6757 1,32630,7196	10,75724,08350 44,64539	4:48
7	98501,91692,55837 3,01123,11667	5 71208,13128 586,33257	5 79895,44682 577,54000	9,99344,46822,9561 1,32767,0679	10,75679,43811 44,60227	4:12
6	98498,90569,44170 3,01423,16149	5 70621,79871 585,16584	5 79317,90682 576,37313	9,99343,14055,8882 1,32903,4245	10,75634,83584 44,55923	3:36
5	98495,89146,28021 3,01723,19713	5 70036,63287 584,00264	5 78741,53369 575,20980	9,99341,81152,4637 1,33039,7895	10,75590,27661 44,51629	3: 0
4	98492,87423,08308 3,02023,22359	5 69452,63023 582,84293	5 78166,32389 574,04996	9,99340,48112,6742 1,33176,1628	10,75545,76032 44,47342	2:24
3	98489,85399,85949 3,02323,24083	5 68869,78730 581,68671	5 77592,27393 572,89360	9,99339,14936,5114 1,33312,5445	10,75501,28690 44,43066	1:48
2	98486,83076,61866 3,02623,24888	5 68288,10059 580,53396	5 77019,38033 571,74072	9,99337,81623,9669 1,33448,9346	10,75456,85624 44,38797	1:12
1	98483,80453,36978 3,02923,24770	5 67707,56663 579,38467	5 76447,63961 570,59130	9,99336,48175,0323 1,33585,3329	10,75412,46827 44,34537	0:36
0	98480,77530,12208 3,03223,23730	5 67128,18196 578,23882	5 75877,04831 569,44531	9,99335,14589,6994 1,33721,7399	10,75368,12290 44,30287	0: 0

GRAD. 80.

10. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	17364,81776,66930 17,18787,32207	17632,69807 17,99649	1 01542,66119 3,12660	9,23967,02300,1160 42,96564,9072	9,24631,87710 44,30287	0: 0
1	17382,00563,99137 17,18734,37345	17650,69456 17,99760	1 01545,78779 3,12989	9,24009,98865,0232 42,92186,2646	9,24676,17997 44,26044	0:36
2	17399,19298,36482 17,18681,37248	17668,69216 17,99871	1 01548,91768 3,13318	9,24052,91051,2878 42,87816,2686	9,24720,44041 44,21811	1:12
3	17416,37979,73730 17,18628,31915	17686,69087 17,99982	1 01552,05086 3,13646	9,24095,78867,5564 42,83454,8930	9,24764,65852 44,17586	1:48
4	17433,56608,05645 17,18575,21347	17704,69069 18,00093	1 01555,18732 3,13976	9,24138,62322,4494 42,79102,1122	9,24808,83438 44,13370	2:24
5	17450,75183,26992 17,18522,05544	17722,69162 18,00205	1 01558,32708 3,14303	9,24181,41424,5616 42,74757,9006	9,24852,96808 44,09162	3: 0
6	17467,93705,32536 17,18468,84506	17740,69367 18,00316	1 01561,47011 3,14633	9,24224,16182,4622 42,70422,2325	9,24897,05970 44,04962	3:36
7	17485,12174,17042 17,18415,58234	17758,69683 18,00428	1 01564,61644 3,14962	9,24266,86604,6947 42,66095,0827	9,24941,10932 44,00772	4:12
8	17502,30589,75276 17,18362,26726	17776,70111 18,00539	1 01567,76606 3,15291	9,24309,52699,7774 42,61776,4256	9,24985,11704 43,96590	4:48
9	17519,48952,02002 17,18308,89985	17794,70650 18,00652	1 01570,91897 3,15619	9,24352,14476,2030 42,57466,2362	9,25029,08294 43,92416	5:24
10	17536,67260,91987 17,18255,48009	17812,71302 18,00763	1 01574,07516 3,15949	9,24394,71942,4392 42,53164,4891	9,25073,00710 43,88251	6: 0
11	17553,85516,39996 17,18202,00799	17830,72065 18,00875	1 01577,23465 3,16278	9,24437,25106,9283 42,48871,1594	9,25116,88961 43,84094	6:36
12	17571,03718,40795 17,18148,48354	17848,72940 18,00988	1 01580,39743 3,16607	9,24479,73978,0877 42,44586,2223	9,25160,73055 43,79945	7:12
13	17588,21866,89149 17,18094,90677	17866,73928 18,01100	1 01583,56350 3,16936	9,24522,18564,3100 42,40309,6526	9,25204,53000 43,75805	7:48
14	17605,39961,79826 17,18041,27766	17884,75028 18,01212	1 01586,73286 3,17265	9,24564,58873,9626 42,36041,4260	9,25248,28805 43,71674	8:24
15	17622,58003,07592 17,17987,59620	17902,76240 18,01325	1 01589,90551 3,17595	9,24606,94915,3886 42,31781,5174	9,25292,00479 43,67551	9: 0
16	17639,75990,67212 17,17933,86243	17920,77565 18,01438	1 01593,08146 3,17924	9,24649,26696,9060 42,27529,9026	9,25335,68030 43,63435	9:36
17	17656,93924,53455 17,17880,07631	17938,79003 18,01550	1 01596,26070 3,18253	9,24691,54226,8086 42,23286,5569	9,25379,31465 43,59328	10:12
18	17674,11804,61086 17,17826,23787	17956,80553 18,01663	1 01599,44323 3,18583	9,24733,77513,3655 42,19051,4562	9,25422,90793 43,55230	10:48
19	17691,29630,84873 17,17772,34710	17974,82216 18,01777	1 01602,62906 3,18912	9,24775,96564,8217 42,14824,5759	9,25466,46023 43,51140	11:24
20	17708,47403,19583 17,17718,40401	17992,83993 18,01889	1 01605,81818 3,19242	9,24818,11389,3976 42,10605,8921	9,25509,97163 43,47058	12: 0
21	17725,65121,59984 17,17664,40858	18010,85882 18,02003	1 01609,01060 3,19572	9,24860,21995,2897 42,06395,3807	9,25553,44221 43,42983	12:36
22	17742,82786,00842 17,17610,36084	18028,87885 18,02116	1 01612,20632 3,19901	9,24902,28390,6704 42,02193,0176	9,25596,87204 43,38918	13:12
23	17760,00396,36926 17,17556,26077	18046,90001 18,02230	1 01615,40533 3,20231	9,24944,30583,6880 41,97998,7790	9,25640,26122 43,34860	13:48
24	17777,17952,63003 17,17502,10839	18064,92231 18,02344	1 01618,60764 3,20560	9,24986,28582,4670 41,93812,6410	9,25683,60982 43,30811	14:24
25	17794,35454,73842 17,17447,90368	18082,94575 18,02457	1 01621,81324 3,20891	9,25028,22395,1080 41,89634,5800	9,25726,91793 43,26769	15: 0
26	17811,52902,64210 17,17393,64666	18100,97032 18,02571	1 01625,02215 3,21220	9,25070,12029,6880 41,85464,5725	9,25770,18562 43,22736	15:36
27	17828,70296,28876 17,17339,33733	18118,99603 18,02685	1 01628,23435 3,21550	9,25111,97494,2605 41,81302,5948	9,25813,41298 43,18711	16:12
28	17845,87635,62609 17,17284,97568	18137,02288 18,02799	1 01631,44985 3,21880	9,25153,78796,8553 41,77148,6234	9,25856,60009 43,14693	16:48
29	17863,04920,60177 17,17230,56173	18155,05087 18,02914	1 01634,66865 3,22210	9,25195,55945,4787 41,73002,6353	9,25899,74702 43,10684	17:24
30	17880,22151,16350 17,17176,09545	18173,08001 18,03028	1 01637,89075 3,22541	9,25237,28948,1140 41,68864,6069	9,25942,85386 43,06682	18: 0
31	17897,39327,25895 17,17121,57687	18191,11029 18,03142	1 01641,11616 3,22870	9,25278,97812,7209 41,64734,5154	9,25985,92068 43,02689	18:36
32	17914,56448,83582 17,17067,00599	18209,14171 18,03257	1 01644,34486 3,23200	9,25320,62547,2363 41,60612,3373	9,26028,94757 42,98704	19:12
33	17931,73515,84181 17,17012,38281	18227,17428 18,03371	1 01647,57686 3,23531	9,25362,23159,5736 41,56498,0501	9,26071,93461 42,94726	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	98480,77530,12208 3,03223,23730	5 67128,18196 578,23882	5 75877,04831 569,44531	9,99335,14589,6994 1,33721,7399	10,75368,12290 44,30287	60: 0
99	98477,74306,88478 3,03523,21765	5 66549,94314 577,09642	5 75307,60300 568,30277	9,99333,80867,9595 1,33858,1550	10,75323,82003 44,26044	59:24
98	98474,70783,66713 3,03823,18877	5 65972,84672 575,95741	5 74739,30023 567,16364	9,99332,47009,8045 1,33994,5787	10,75279,55959 44,21811	58:48
97	98471,66960,47836 3,04123,15063	5 65396,88931 574,82182	5 74172,13659 566,02790	9,99331,13015,2258 1,34131,0108	10,75235,34148 44,17586	58:12
96	98468,62837,32773 3,04423,10322	5 64822,06749 573,68962	5 73606,10869 564,89557	9,99329,78884,2150 1,34267,4513	10,75191,16562 44,13370	57:36
95	98465,58414,22451 3,04723,04655	5 64248,37787 572,56079	5 73041,21312 563,76661	9,99328,44616,7637 1,34403,9002	10,75147,03192 44,09162	57: 0
94	98462,53691,17796 3,05022,98058	5 63675,81708 571,43533	5 72477,44651 562,64101	9,99327,10212,8635 1,34540,3575	10,75102,94030 44,04962	56:24
93	98459,48668,19738 3,05322,90533	5 63104,38175 570,31321	5 71914,80550 561,51876	9,99325,75672,5060 1,34676,8234	10,75058,89068 44,00772	55:48
92	98456,43345,29205 3,05622,82077	5 62534,06854 569,19444	5 71353,28674 560,39985	9,99324,40995,6826 1,34813,2977	10,75014,88296 43,96590	55:12
91	98453,37722,47128 3,05922,72691	5 61964,87410 568,07899	5 70792,88689 559,28426	9,99323,06182,3849 1,34949,7805	10,74970,91706 43,92416	54:36
90	98450,31799,74437 3,06222,62373	5 61396,79511 566,96684	5 70233,60263 558,17199	9,99321,71232,6044 1,35086,2716	10,74926,99290 43,88251	54: 0
89	98447,25577,12064 3,06522,51122	5 60829,82827 565,85799	5 69675,43064 557,06300	9,99320,36146,3328 1,35222,7715	10,74883,11039 43,84094	53:24
88	98444,19054,60942 3,06822,38937	5 60263,97028 564,75244	5 69118,36764 555,95730	9,99319,00923,5613 1,35359,2797	10,74839,26945 43,79945	52:48
87	98441,12232,22005 3,07122,25818	5 59699,21784 563,65014	5 68562,41034 554,85487	9,99317,65564,2816 1,35495,7964	10,74795,47000 43,75805	52:12
86	98438,05109,96187 3,07422,11763	5 59135,56770 562,55111	5 68007,55547 553,75571	9,99316,30068,4852 1,35632,3217	10,74751,71195 43,71674	51:36
85	98434,97687,84424 3,07721,96772	5 58573,01659 561,45533	5 67453,79976 552,65979	9,99314,94436,1635 1,35768,8554	10,74707,99521 43,67551	51: 0
84	98431,89965,87652 3,08021,80842	5 58011,56126 560,36277	5 66901,13997 551,56709	9,99313,58667,3081 1,35905,3979	10,74664,31970 43,63435	50:24
83	98428,81944,06810 3,08321,63976	5 57451,19849 559,27343	5 66349,57288 550,47762	9,99312,22761,9102 1,36041,9487	10,74620,68535 43,59328	49:48
82	98425,73622,42834 3,08621,46169	5 56891,92506 558,18731	5 65799,09526 549,39136	9,99310,86719,9615 1,36178,5081	10,74577,09207 43,55230	49:12
81	98422,65000,96665 3,08921,27423	5 56333,73775 557,10437	5 65249,70390 548,30829	9,99309,50541,4534 1,36315,0761	10,74533,53977 43,51140	48:36
80	98419,56079,69242 3,09221,07736	5 55776,63338 556,02463	5 64701,39561 547,22840	9,99308,14226,3773 1,36451,6527	10,74490,02837 43,47058	48: 0
79	98416,46858,61506 3,09520,87106	5 55220,60875 554,94805	5 64154,16721 546,15169	9,99306,77774,7246 1,36588,2378	10,74446,55779 43,42983	47:24
78	98413,37337,74400 3,09820,65534	5 54665,66070 553,87462	5 63608,01552 545,07812	9,99305,41186,4868 1,36724,8316	10,74403,12796 43,38918	46:48
77	98410,27517,08866 3,10120,43018	5 54111,78608 552,80435	5 63062,93740 544,00771	9,99304,04461,6552 1,36861,4340	10,74359,73878 43,34860	46:12
76	98407,17396,65848 3,10420,19557	5 53558,98173 551,73720	5 62518,92969 542,94043	9,99302,67600,2212 1,36998,0449	10,74316,39018 43,30811	45:36
75	98404,06976,46291 3,10719,95151	5 53007,24453 550,67318	5 61975,98926 541,87627	9,99301,30602,1763 1,37134,6644	10,74273,08207 43,26769	45: 0
74	98400,96256,51140 3,11019,69799	5 52456,57135 549,61226	5 61434,11299 540,81521	9,99299,93467,5119 1,37271,2927	10,74229,81438 43,22736	44:24
73	98397,85236,81341 3,11319,43498	5 51906,95909 548,55444	5 60893,29778 539,75726	9,99298,56196,2192 1,37407,9295	10,74186,58702 43,18711	43:48
72	98394,73917,37843 3,11619,16249	5 51358,40465 547,49971	5 60353,54052 538,70238	9,99297,18788,2897 1,37544,5750	10,74143,39991 43,14693	43:12
71	98391,62298,21594 3,11918,88052	5 50810,90494 546,44804	5 59814,83814 537,65058	9,99295,81243,7147 1,37681,2291	10,74100,25298 43,10684	42:36
70	98388,50379,33542 3,12218,58904	5 50264,45690 545,39944	5 59277,18756 536,60184	9,99294,43562,4856 1,37817,8920	10,74057,14614 43,06682	42: 0
69	98385,38160,74638 3,12518,28805	5 49719,05746 544,35389	5 58740,58572 535,55615	9,99293,05744,5936 1,37954,5634	10,74014,07932 43,02689	41:24
68	98382,25642,45833 3,12817,97754	5 49174,70357 543,31137	5 58205,02957 534,51349	9,99291,67790,0302 1,38091,2436	10,73971,05243 42,98704	40:48
67	98379,12824,48079 3,13117,65751	5 48631,39220 542,27188	5 57670,51608 533,47386	9,99290,29698,7866 1,38227,9324	10,73928,06539 42,94726	40:12

GRAD. 79.

10. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	17931,73515,84181	18227,17428	1 01647,57686	9,25362,23159,5736	9,26071,93461	19:48
	17,17012,38281	18,03371	3,23531	41,56498,0501	42,94726	
34	17948,90528,22462	18245,20799	1 01650,81217	9,25403,79657,6237	9,26114,88187	20:24
	17,16957,70731	18,03487	3,23861	41,52391,6305	42,90756	
35	17966,07485,93193	18263,24286	1 01654,05078	9,25445,32049,2542	9,26157,78943	21: 0
	17,16902,97951	18,03602	3,24191	41,48293,0560	42,86794	
36	17983,24388,91144	18281,27888	1 01657,29269	9,25486,80342,3102	9,26200,65737	21:36
	17,16848,19942	18,03716	3,24522	41,44202,3037	42,82841	
37	18000,41237,11086	18299,31604	1 01660,53791	9,25528,24544,6139	9,26243,48578	22:12
	17,16793,36704	18,03832	3,24852	41,40119,3512	42,78894	
38	18017,58030,47790	18317,35436	1 01663,78643	9,25569,64663,9651	9,26286,27472	22:48
	17,16738,48234	18,03947	3,25182	41,36044,1757	42,74956	
39	18034,74768,96024	18335,39383	1 01667,03825	9,25611,00708,1408	9,26329,02428	23:24
	17,16683,54536	18,04063	3,25513	41,31976,7549	42,71025	
40	18051,91452,50560	18353,43446	1 01670,29338	9,25652,32684,8957	9,26371,73453	24: 0
	17,16628,55608	18,04178	3,25844	41,27917,0664	42,67102	
41	18069,08081,06168	18371,47624	1 01673,55182	9,25693,60601,9621	9,26414,40555	24:36
	17,16573,51452	18,04294	3,26174	41,23865,0880	42,63187	
42	18086,24654,57620	18389,51918	1 01676,81356	9,25734,84467,0501	9,26457,03742	25:12
	17,16518,42066	18,04410	3,26505	41,19820,7974	42,59279	
43	18103,41172,99686	18407,56328	1 01680,07861	9,25776,04287,8475	9,26499,63021	25:48
	17,16463,27451	18,04525	3,26835	41,15784,1726	42,55379	
44	18120,57636,27137	18425,60853	1 01683,34696	9,25817,20072,0201	9,26542,18400	26:24
	17,16408,07609	18,04642	3,27167	41,11755,1915	42,51488	
45	18137,74044,34746	18443,65495	1 01686,61863	9,25858,31827,2116	9,26584,69888	27: 0
	17,16352,82536	18,04758	3,27497	41,07733,8323	42,47602	
46	18154,90397,17282	18461,70253	1 01689,89360	9,25899,39561,0439	9,26627,17490	27:36
	17,16297,52236	18,04874	3,27828	41,03720,0728	42,43726	
47	18172,06694,69518	18479,75127	1 01693,17188	9,25940,43281,1167	9,26669,61216	28:12
	17,16242,16709	18,04991	3,28159	40,99713,8917	42,39856	
48	18189,22936,86227	18497,80118	1 01696,45347	9,25981,42995,0084	9,26712,01072	28:48
	17,16186,75952	18,05107	3,28490	40,95715,2670	42,35995	
49	18206,39123,62179	18515,85225	1 01699,73837	9,26022,38710,2754	9,26754,37067	29:24
	17,16131,29968	18,05224	3,28821	40,91724,1772	42,32140	
50	18223,55254,92147	18533,90449	1 01703,02658	9,26063,30434,4526	9,26796,69207	30: 0
	17,16075,78757	18,05341	3,29152	40,87740,6008	42,28294	
51	18240,71330,70904	18551,95790	1 01706,31810	9,26104,18175,0534	9,26838,97501	30:36
	17,16020,22318	18,05458	3,29483	40,83764,5163	42,24454	
52	18257,87350,93222	18570,01248	1 01709,61293	9,26145,01939,5697	9,26881,21955	31:12
	17,15964,60652	18,05574	3,29815	40,79795,9023	42,20623	
53	18275,03315,53874	18588,06822	1 01712,91108	9,26185,81735,4720	9,26923,42578	31:48
	17,15908,93758	18,05692	3,30146	40,75834,7377	42,16798	
54	18292,19224,47632	18606,12514	1 01716,21254	9,26226,57570,2097	9,26965,59376	32:24
	17,15853,21637	18,05809	3,30477	40,71881,0012	42,12982	
55	18309,35077,69269	18624,18323	1 01719,51731	9,26267,29451,2109	9,27007,72358	33: 0
	17,15797,44291	18,05927	3,30808	40,67934,6716	42,09172	
56	18326,50875,13560	18642,24250	1 01722,82539	9,26307,97385,8825	9,27049,81530	33:36
	17,15741,61716	18,06044	3,31140	40,63995,7280	42,05369	
57	18343,66616,75276	18660,30294	1 01726,13679	9,26348,61381,6105	9,27091,86899	34:12
	17,15685,73917	18,06161	3,31471	40,60064,1495	42,01576	
58	18360,82302,49193	18678,36455	1 01729,45150	9,26389,21445,7600	9,27133,88475	34:48
	17,15629,80890	18,06280	3,31803	40,56139,9149	41,97788	
59	18377,97932,30083	18696,42735	1 01732,76953	9,26429,77585,6749	9,27175,86263	35:24
	17,15573,82637	18,06397	3,32134	40,52223,0038	41,94008	
60	18395,13506,12720	18714,49132	1 01736,09087	9,26470,29808,6787	9,27217,80271	36: 0
	17,15517,79159	18,06515	3,32466	40,48313,3952	41,90235	
61	18412,29023,91879	18732,55647	1 01739,41553	9,26510,78122,0739	9,27259,70506	36:36
	17,15461,70454	18,06634	3,32797	40,44411,0687	41,86470	
62	18429,44485,62333	18750,62281	1 01742,74350	9,26551,22533,1426	9,27301,56976	37:12
	17,15405,56525	18,06752	3,33130	40,40516,0035	41,82711	
63	18446,59891,18858	18768,69033	1 01746,07480	9,26591,63049,1461	9,27343,39687	37:48
	17,15349,37369	18,06870	3,33461	40,36628,1792	41,78961	
64	18463,75240,56227	18786,75903	1 01749,40941	9,26631,99677,3253	9,27385,18648	38:24
	17,15293,12988	18,06988	3,33793	40,32747,5754	41,75217	
65	18480,90533,69215	18804,82891	1 01752,74734	9,26672,32424,9007	9,27426,93865	39: 0
	17,15236,83383	18,07107	3,34124	40,28874,1719	41,71481	
66	18498,05770,52598	18822,89998	1 01756,08858	9,26712,61299,0726	9,27468,65346	39:36
	17,15180,48553	18,07226	3,34457	40,25007,9481	41,67752	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98379,12824,48079 3,13117,65751	5 48631,39220 542,27188	5 57670,51608 533,47386	9,99290,29698,7866 1,38227,9324	10,73928,06539 42,94726	40:12
66	98375,99706,82328 3,13417,32792	5 48089,12032 541,23540	5 57137,04222 532,43725	9,99288,91470,8542 1,38364,6301	10,73885,11813 42,90756	39:36
65	98372,86289,49536 3,13716,98880	5 47547,88492 540,20193	5 56604,60497 531,40362	9,99287,53106,2241 1,38501,3362	10,73842,21057 42,86794	39: 0
64	98369,72572,50656 3,14016,64012	5 47007,68299 539,17143	5 56073,20135 530,37301	9,99286,14604,8879 1,38638,0513	10,73799,34263 42,82841	38:24
63	98366,58555,86644 3,14316,28188	5 46468,51156 538,14393	5 55542,82834 529,34535	9,99284,75966,8366 1,38774,7750	10,73756,51422 42,78894	37:48
62	98363,44239,58456 3,14615,91405	5 45930,36763 537,11939	5 55013,48299 528,32067	9,99283,37192,0616 1,38911,5074	10,73713,72528 42,74956	37:12
61	98360,29623,67051 3,14915,53665	5 45393,24824 536,09780	5 54485,16232 527,29895	9,99281,98280,5542 1,39048,2486	10,73670,97572 42,71025	36:36
60	98357,14708,13386 3,15215,14965	5 44857,15044 535,07916	5 53957,86337 526,28017	9,99280,59232,3056 1,39184,9986	10,73628,26547 42,67102	36: 0
59	98353,99492,98421 3,15514,75306	5 44322,07128 534,06345	5 53431,58320 525,26432	9,99279,20047,3070 1,39321,7573	10,73585,59445 42,63187	35:24
58	98350,83978,23115 3,15814,34684	5 43788,00783 533,05067	5 52906,31888 524,25139	9,99277,80725,5497 1,39458,5248	10,73542,96258 42,59279	34:48
57	98347,68163,88431 3,16113,93101	5 43254,95716 532,04079	5 52382,06749 523,24138	9,99276,41267,0249 1,39595,3011	10,73500,36979 42,55379	34:12
56	98344,52049,95330 3,16413,50556	5 42722,91637 531,03381	5 51858,82611 522,23426	9,99275,01671,7238 1,39732,0862	10,73457,81600 42,51488	33:36
55	98341,35636,44774 3,16713,07045	5 42191,88256 530,02972	5 51336,59185 521,23003	9,99273,61939,6376 1,39868,8801	10,73415,30112 42,47602	33: 0
54	98338,18923,37729 3,17012,62571	5 41661,85284 529,02852	5 50815,36182 520,22868	9,99272,22070,7575 1,40005,6827	10,73372,82510 42,43726	32:24
53	98335,01910,75158 3,17312,17130	5 41132,82432 528,03017	5 50295,13314 519,23020	9,99270,82065,0748 1,40142,4942	10,73330,38784 42,39856	31:48
52	98331,84598,58028 3,17611,70724	5 40604,79415 527,03468	5 49775,90294 518,23456	9,99269,41922,5806 1,40279,3146	10,73287,98928 42,35995	31:12
51	98328,66986,87304 3,17911,23349	5 40077,75947 526,04204	5 49257,66838 517,24178	9,99268,01643,2660 1,40416,1438	10,73245,62933 42,32140	30:36
50	98325,49075,63955 3,18210,75007	5 39551,71743 525,05222	5 48740,42660 516,25183	9,99266,61227,1222 1,40552,9818	10,73203,30793 42,28294	30: 0
49	98322,30864,88948 3,18510,25694	5 39026,66521 524,06524	5 48224,17477 515,26470	9,99265,20674,1404 1,40689,8287	10,73161,02499 42,24454	29:24
48	98319,12354,63254 3,18809,75412	5 38502,59997 523,08107	5 47708,91007 514,28038	9,99263,79984,3117 1,40826,6844	10,73118,78045 42,20623	28:48
47	98315,93544,87842 3,19109,24159	5 37979,51890 522,09969	5 47194,62969 513,29887	9,99262,39157,6273 1,40963,5491	10,73076,57422 42,16798	28:12
46	98312,74435,63683 3,19408,71933	5 37457,41921 521,12110	5 46681,33082 512,32014	9,99260,98194,0782 1,41100,4225	10,73034,40624 42,12982	27:36
45	98309,55026,91750 3,19708,18735	5 36936,29811 520,14531	5 46169,01068 511,34420	9,99259,57093,6557 1,41237,3050	10,72992,27642 42,09172	27: 0
44	98306,35318,73015 3,20007,64562	5 36416,15280 519,17227	5 45657,66648 510,37102	9,99258,15856,3507 1,41374,1963	10,72950,18470 42,05369	26:24
43	98303,15311,08453 3,20307,09414	5 35896,98053 518,20199	5 45147,29546 509,40061	9,99256,74482,1544 1,41511,0965	10,72908,13101 42,01576	25:48
42	98299,95003,99039 3,20606,53292	5 35378,77854 517,23448	5 44637,89485 508,43294	9,99255,32971,0579 1,41648,0056	10,72866,11525 41,97788	25:12
41	98296,74397,45747 3,20905,96193	5 34861,54406 516,26968	5 44129,46191 507,46801	9,99253,91323,0523 1,41784,9238	10,72824,13737 41,94008	24:36
40	98293,53491,49554 3,21205,38115	5 34345,27438 515,30763	5 43621,99390 506,50582	9,99252,49538,1285 1,41921,8507	10,72782,19729 41,90235	24: 0
39	98290,32286,11439 3,21504,79060	5 33829,96675 514,34829	5 43115,48808 505,54633	9,99251,07616,2778 1,42058,7867	10,72740,29494 41,86470	23:24
38	98287,10781,32379 3,21804,19025	5 33315,61846 513,39166	5 42609,94175 504,58955	9,99249,65557,4911 1,42195,7316	10,72698,43024 41,82711	22:48
37	98283,88977,13354 3,22103,58009	5 32802,22680 512,43772	5 42105,35220 503,63548	9,99248,23361,7595 1,42332,6855	10,72656,60313 41,78961	22:12
36	98280,66873,55345 3,22402,96014	5 32289,78908 511,48648	5 41601,71672 502,68409	9,99246,81029,0740 1,42469,6484	10,72614,81352 41,75217	21:36
35	98277,44470,59331 3,22702,33035	5 31778,30260 510,53791	5 41099,03263 501,73537	9,99245,38559,4256 1,42606,6203	10,72573,06135 41,71481	21: 0
34	98274,21768,26296 3,23001,69073	5 31267,76469 509,59200	5 40597,29726 500,78933	9,99243,95952,8053 1,42743,6011	10,72531,34654 41,67752	20:24

GRAD. 79.

10. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	18515,20951,01151	18840,97224	1 01759,43315	9,26752,86307,0207	9,27510,33098	40:12
	17,15124,08496	18,07345	3,34789	40,21148,8843	41,64029	
68	18532,36075,09647	18859,04569	1 01762,78104	9,26793,07455,9050	9,27551,97127	40:48
	17,15067,63217	18,07464	3,35120	40,17296,9599	41,60315	
69	18549,51142,72864	18877,12033	1 01766,13224	9,26833,24752,8649	9,27593,57442	41:24
	17,15011,12713	18,07583	3,35453	40,13452,1553	41,56607	
70	18566,66153,85577	18895,19616	1 01769,48677	9,26873,38205,0202	9,27635,14049	42: 0
	17,14954,56984	18,07702	3,35785	40,09614,4502	41,52906	
71	18583,81108,42561	18913,27318	1 01772,84462	9,26913,47819,4704	9,27676,66955	42:36
	17,14897,96032	18,07821	3,36117	40,05783,8249	41,49212	
72	18600,96006,38593	18931,35139	1 01776,20579	9,26953,53603,2953	9,27718,16167	43:12
	17,14841,29855	18,07941	3,36450	40,01960,2596	41,45526	
73	18618,10847,68448	18949,43080	1 01779,57029	9,26993,55563,5549	9,27759,61693	43:48
	17,14784,58455	18,08061	3,36781	39,98143,7346	41,41847	
74	18635,25632,26903	18967,51141	1 01782,93810	9,27033,53707,2895	9,27801,03540	44:24
	17,14727,81832	18,08180	3,37114	39,94334,2300	41,38174	
75	18652,40360,08735	18985,59321	1 01786,30924	9,27073,48041,5195	9,27842,41714	45: 0
	17,14670,99984	18,08300	3,37447	39,90531,7265	41,34508	
76	18669,55031,08719	19003,67621	1 01789,68371	9,27113,38573,2460	9,27883,76222	45:36
	17,14614,12914	18,08420	3,37779	39,86736,2045	41,30850	
77	18686,69645,21633	19021,76041	1 01793,06150	9,27153,25309,4505	9,27925,07072	46:12
	17,14557,20621	18,08540	3,38111	39,82947,6445	41,27199	
78	18703,84202,42254	19039,84581	1 01796,44261	9,27193,08257,0950	9,27966,34271	46:48
	17,14500,23105	18,08661	3,38444	39,79166,0272	41,23554	
79	18720,98702,65359	19057,93242	1 01799,82705	9,27232,87423,1222	9,28007,57825	47:24
	17,14443,20366	18,08780	3,38777	39,75391,3332	41,19916	
80	18738,13145,85725	19076,02022	1 01803,21482	9,27272,62814,4554	9,28048,77741	48: 0
	17,14386,12404	18,08901	3,39109	39,71623,5434	41,16286	
81	18755,27531,98129	19094,10923	1 01806,60591	9,27312,34437,9988	9,28089,94027	48:36
	17,14328,99222	18,09022	3,39442	39,67862,6386	41,12662	
82	18772,41860,97351	19112,19945	1 01810,00033	9,27352,02300,6374	9,28131,06689	49:12
	17,14271,80815	18,09142	3,39775	39,64108,5996	41,09045	
83	18789,56132,78166	19130,29087	1 01813,39808	9,27391,66409,2370	9,28172,15734	49:48
	17,14214,57188	18,09263	3,40108	39,60361,4077	41,05435	
84	18806,70347,35354	19148,38350	1 01816,79916	9,27431,26770,6447	9,28213,21169	50:24
	17,14157,28338	18,09384	3,40440	39,56621,0436	41,01832	
85	18823,84504,63692	19166,47734	1 01820,20356	9,27470,83391,6883	9,28254,23001	51: 0
	17,14099,94268	18,09506	3,40774	39,52887,4886	40,98236	
86	18840,98604,57960	19184,57240	1 01823,61130	9,27510,36279,1769	9,28295,21237	51:36
	17,14042,54974	18,09626	3,41106	39,49160,7239	40,94646	
87	18858,12647,12934	19202,66866	1 01827,02236	9,27549,85439,9008	9,28336,15883	52:12
	17,13985,10461	18,09748	3,41440	39,45440,7308	40,91063	
88	18875,26632,23395	19220,76614	1 01830,43676	9,27589,30880,6316	9,28377,06946	52:48
	17,13927,60726	18,09869	3,41773	39,41727,4905	40,87487	
89	18892,40559,84121	19238,86483	1 01833,85449	9,27628,72608,1221	9,28417,94433	53:24
	17,13870,05770	18,09990	3,42106	39,38020,9845	40,83917	
90	18909,54429,89891	19256,96473	1 01837,27555	9,27668,10629,1066	9,28458,78350	54: 0
	17,13812,45594	18,10113	3,42439	39,34321,1943	40,80355	
91	18926,68242,35485	19275,06586	1 01840,69994	9,27707,44950,3009	9,28499,58705	54:36
	17,13754,80196	18,10234	3,42772	39,30628,1014	40,76800	
92	18943,81997,15681	19293,16820	1 01844,12766	9,27746,75578,4023	9,28540,35505	55:12
	17,13697,09579	18,10356	3,43106	39,26941,6873	40,73249	
93	18960,95694,25260	19311,27176	1 01847,55872	9,27786,02520,0896	9,28581,08754	55:48
	17,13639,33741	18,10478	3,43439	39,23261,9338	40,69708	
94	18978,09333,59001	19329,37654	1 01850,99311	9,27825,25782,0234	9,28621,78462	56:24
	17,13581,52684	18,10600	3,43772	39,19588,8228	40,66172	
95	18995,22915,11685	19347,48254	1 01854,43083	9,27864,45370,8462	9,28662,44634	57: 0
	17,13523,66405	18,10722	3,44106	39,15922,3357	40,62642	
96	19012,36438,78090	19365,58976	1 01857,87189	9,27903,61293,1819	9,28703,07276	57:36
	17,13465,74909	18,10845	3,44440	39,12262,4547	40,59120	
97	19029,49904,52999	19383,69821	1 01861,31629	9,27942,73555,6366	9,28743,66396	58:12
	17,13407,78191	18,10967	3,44773	39,08609,1616	40,55603	
98	19046,63312,31190	19401,80788	1 01864,76402	9,27981,82164,7982	9,28784,21999	58:48
	17,13349,76255	18,11091	3,45107	39,04962,4385	40,52094	
99	19063,76662,07445	19419,91879	1 01868,21509	9,28020,87127,2367	9,28824,74093	59:24
	17,13291,69100	18,11212	3,45441	39,01322,2674	40,48592	
100	19080,89953,76545	19438,03091	1 01871,66950	9,28059,88449,5041	9,28865,22685	60: 0
	17,13233,56725	18,11336	3,45774	38,97688,6304	40,45095	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	98270,98766,57223 3,23301,04128	5 30758,17269 508,64876	5 40096,50793 499,84594	9,99242,53209,2042 1,42880,5909	10,72489,66902 41,64029	19:48
32	98267,75465,53095 3,23600,38198	5 30249,52393 507,70816	5 39596,66199 498,90520	9,99241,10328,6133 1,43017,5898	10,72448,02873 41,60315	19:12
31	98264,51865,14897 3,23899,71282	5 29741,81577 506,77020	5 39097,75679 497,96710	9,99239,67311,0235 1,43154,5977	10,72406,42558 41,56607	18:36
30	98261,27965,43615 3,24199,03379	5 29235,04557 505,83487	5 38599,78969 497,03161	9,99238,24156,4258 1,43291,6147	10,72364,85951 41,52906	18: 0
29	98258,03766,40236 3,24498,34489	5 28729,21070 504,90215	5 38102,75808 496,09876	9,99236,80864,8111 1,43428,6406	10,72323,33045 41,49212	17:24
28	98254,79268,05747 3,24797,64611	5 28224,30855 503,97205	5 37606,65932 495,16851	9,99235,37436,1705 1,43565,6756	10,72281,83833 41,45526	16:48
27	98251,54470,41136 3,25096,93742	5 27720,33650 503,04454	5 37111,49081 494,24086	9,99233,93870,4949 1,43702,7197	10,72240,38307 41,41847	16:12
26	98248,29373,47394 3,25396,21884	5 27217,29196 502,11962	5 36617,24995 493,31579	9,99232,50167,7752 1,43839,7728	10,72198,96460 41,38174	15:36
25	98245,03977,25510 3,25695,49035	5 26715,17234 501,19727	5 36123,93416 492,39331	9,99231,06328,0024 1,43976,8351	10,72157,58286 41,34508	15: 0
24	98241,78281,76475 3,25994,75193	5 26213,97507 500,27751	5 35631,54085 491,47339	9,99229,62351,1673 1,44113,9064	10,72116,23778 41,30850	14:24
23	98238,52287,01282 3,26294,00358	5 25713,69756 499,36030	5 35140,06746 490,55604	9,99228,18237,2609 1,44250,9868	10,72074,92928 41,27199	13:48
22	98235,25993,00924 3,26593,24529	5 25214,33726 498,44563	5 34649,51142 489,64123	9,99226,73986,2741 1,44388,0763	10,72033,65729 41,23554	13:12
21	98231,99399,76395 3,26892,47706	5 24715,89163 497,53352	5 34159,87019 488,72896	9,99225,29598,1978 1,44525,1750	10,71992,42175 41,19916	12:36
20	98228,72507,28689 3,27191,69887	5 24218,35811 496,62393	5 33671,14123 487,81923	9,99223,85073,0228 1,44662,2827	10,71951,22259 41,16286	12: 0
19	98225,45315,58802 3,27490,91071	5 23721,73418 495,71686	5 33183,32200 486,91202	9,99222,40410,7401 1,44799,3996	10,71910,05973 41,12662	11:24
18	98222,17824,67731 3,27790,11257	5 23226,01732 494,81231	5 32696,40998 486,00732	9,99220,95611,3405 1,44936,5256	10,71868,93311 41,09045	10:48
17	98218,90034,56474 3,28089,30445	5 22731,20501 493,91026	5 32210,40266 485,10513	9,99219,50674,8149 1,45073,6609	10,71827,84266 41,05435	10:12
16	98215,61945,26029 3,28388,48633	5 22237,29475 493,01070	5 31725,29753 484,20543	9,99218,05601,1540 1,45210,8052	10,71786,78831 41,01832	9:36
15	98212,33556,77396 3,28687,65822	5 21744,28405 492,11364	5 31241,09210 483,30821	9,99216,60390,3488 1,45347,9587	10,71745,76999 40,98236	9: 0
14	98209,04869,11574 3,28986,82009	5 21252,17041 491,21904	5 30757,78389 482,41347	9,99215,15042,3901 1,45485,1214	10,71704,78763 40,94646	8:24
13	98205,75882,29565 3,29285,97193	5 20760,95137 490,32691	5 30275,37042 481,52120	9,99213,69557,2687 1,45622,2933	10,71663,84117 40,91063	7:48
12	98202,46596,32372 3,29585,11375	5 20270,62446 489,43725	5 29793,84922 480,63138	9,99212,23934,9754 1,45759,4744	10,71622,93054 40,87487	7:12
11	98199,17011,20997 3,29884,24553	5 19781,18721 488,55003	5 29313,21784 479,74402	9,99210,78175,5010 1,45896,6647	10,71582,05567 40,83917	6:36
10	98195,87126,96444 3,30183,36726	5 19292,63718 487,66524	5 28833,47382 478,85909	9,99209,32278,8363 1,46033,8642	10,71541,21650 40,80355	6: 0
9	98192,56943,59718 3,30482,47893	5 18804,97194 486,78290	5 28354,61473 477,97660	9,99207,86244,9721 1,46171,0730	10,71500,41295 40,76800	5:24
8	98189,26461,11825 3,30781,58053	5 18318,18904 485,90297	5 27876,63813 477,09652	9,99206,40073,8991 1,46308,2910	10,71459,64495 40,73249	4:48
7	98185,95679,53772 3,31080,67206	5 17832,28607 485,02546	5 27399,54161 476,21886	9,99204,93765,6081 1,46445,5182	10,71418,91246 40,69708	4:12
6	98182,64598,86566 3,31379,75350	5 17347,26061 484,15035	5 26923,32275 475,34361	9,99203,47320,0899 1,46582,7546	10,71378,21538 40,66172	3:36
5	98179,33219,11216 3,31678,82485	5 16863,11026 483,27764	5 26447,97914 474,47074	9,99202,00737,3353 1,46720,0005	10,71337,55366 40,62642	3: 0
4	98176,01540,28731 3,31977,88610	5 16379,83262 482,40731	5 25973,50840 473,60027	9,99200,54017,3348 1,46857,2554	10,71296,92724 40,59120	2:24
3	98172,69562,40121 3,32276,93722	5 15897,42531 481,53936	5 25499,90813 472,73218	9,99199,07160,0794 1,46994,5198	10,71256,33604 40,55603	1:48
2	98169,37285,46399 3,32575,97824	5 15415,88595 480,67379	5 25027,17595 471,86645	9,99197,60165,5596 1,47131,7933	10,71215,78001 40,52094	1:12
1	98166,04709,48575 3,32875,00911	5 14935,21216 479,81056	5 24555,30950 471,00308	9,99196,13033,7663 1,47269,0763	10,71175,25907 40,48592	0:36
0	98162,71834,47664 3,33174,02985	5 14455,40160 478,94970	5 24084,30642 470,14207	9,99194,65764,6900 1,47406,3684	10,71134,77315 40,45095	0: 0

GRAD. 79.

11. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	19080,89953,76545 17,13233,56725	19438,03091 18,11336	1 01871,66950 3,45774	9,28059,88449,5041 38,97688,6304	9,28865,22685 40,45095	0: 0
1	19098,03187,33270 17,13175,39132	19456,14427 18,11459	1 01875,12724 3,46108	9,28098,86138,1345 38,94061,5098	9,28905,67780 40,41605	0:36
2	19115,16362,72402 17,13117,16321	19474,25886 18,11582	1 01878,58832 3,46442	9,28137,80199,6443 38,90440,8879	9,28946,09385 40,38122	1:12
3	19132,29479,88723 17,13058,88290	19492,37468 18,11705	1 01882,05274 3,46776	9,28176,70640,5322 38,86826,7468	9,28986,47507 40,34645	1:48
4	19149,42538,77013 17,13000,55042	19510,49173 18,11828	1 01885,52050 3,47110	9,28215,57467,2790 38,83219,0691	9,29026,82152 40,31175	2:24
5	19166,55539,32055 17,12942,16575	19528,61001 18,11953	1 01888,99160 3,47444	9,28254,40686,3481 38,79617,8373	9,29067,13327 40,27710	3: 0
6	19183,68481,48630 17,12883,72890	19546,72954 18,12075	1 01892,46604 3,47778	9,28293,20304,1854 38,76023,0338	9,29107,41037 40,24254	3:36
7	19200,81365,21520 17,12825,23988	19564,85029 18,12200	1 01895,94382 3,48112	9,28331,96327,2192 38,72434,6411	9,29147,65291 40,20802	4:12
8	19217,94190,45508 17,12766,69868	19582,97229 18,12323	1 01899,42494 3,48447	9,28370,68761,8603 38,68852,6420	9,29187,86093 40,17358	4:48
9	19235,06957,15376 17,12708,10531	19601,09552 18,12447	1 01902,90941 3,48780	9,28409,37614,5023 38,65277,0192	9,29228,03451 40,13919	5:24
10	19252,19665,25907 17,12649,45977	19619,21999 18,12572	1 01906,39721 3,49115	9,28448,02891,5215 38,61707,7555	9,29268,17370 40,10488	6: 0
11	19269,32314,71884 17,12590,76205	19637,34571 18,12696	1 01909,88836 3,49450	9,28486,64599,2770 38,58144,8336	9,29308,27858 40,07062	6:36
12	19286,44905,48089 17,12532,01217	19655,47267 18,12820	1 01913,38286 3,49784	9,28525,22744,1106 38,54588,2365	9,29348,34920 40,03643	7:12
13	19303,57437,49306 17,12473,21012	19673,60087 18,12944	1 01916,88070 3,50118	9,28563,77332,3471 38,51037,9471	9,29388,38563 40,00230	7:48
14	19320,69910,70318 17,12414,35590	19691,73031 18,13069	1 01920,38188 3,50453	9,28602,28370,2942 38,47493,9485	9,29428,38793 39,96823	8:24
15	19337,82325,05908 17,12355,44952	19709,86100 18,13194	1 01923,88641 3,50787	9,28640,75864,2427 38,43956,2237	9,29468,35616 39,93423	9: 0
16	19354,94680,50860 17,12296,49099	19727,99294 18,13319	1 01927,39428 3,51123	9,28679,19820,4664 38,40424,7558	9,29508,29039 39,90029	9:36
17	19372,06976,99959 17,12237,48028	19746,12613 18,13444	1 01930,90551 3,51456	9,28717,60245,2222 38,36899,5282	9,29548,19068 39,86641	10:12
18	19389,19214,47987 17,12178,41743	19764,26057 18,13569	1 01934,42007 3,51792	9,28755,97144,7504 38,33380,5240	9,29588,05709 39,83260	10:48
19	19406,31392,89730 17,12119,30242	19782,39626 18,13694	1 01937,93799 3,52126	9,28794,30525,2744 38,29867,7264	9,29627,88969 39,79885	11:24
20	19423,43512,19972 17,12060,13525	19800,53320 18,13820	1 01941,45925 3,52462	9,28832,60393,0008 38,26361,1192	9,29667,68854 39,76515	12: 0
21	19440,55572,33497 17,12000,91593	19818,67140 18,13945	1 01944,98387 3,52796	9,28870,86754,1200 38,22860,6853	9,29707,45369 39,73152	12:36
22	19457,67573,25090 17,11941,64446	19836,81085 18,14070	1 01948,51183 3,53131	9,28909,09614,8053 38,19366,4086	9,29747,18521 39,69796	13:12
23	19474,79514,89536 17,11882,32084	19854,95155 18,14197	1 01952,04314 3,53467	9,28947,28981,2139 38,15878,2726	9,29786,88317 39,66445	13:48
24	19491,91397,21620 17,11822,94508	19873,09352 18,14322	1 01955,57781 3,53801	9,28985,44859,4865 38,12396,2607	9,29826,54762 39,63100	14:24
25	19509,03220,16128 17,11763,51717	19891,23674 18,14448	1 01959,11582 3,54137	9,29023,57255,7472 38,08920,3568	9,29866,17862 39,59762	15: 0
26	19526,14983,67845 17,11704,03711	19909,38122 18,14574	1 01962,65719 3,54471	9,29061,66176,1040 38,05450,5444	9,29905,77624 39,56430	15:36
27	19543,26687,71556 17,11644,50492	19927,52696 18,14701	1 01966,20190 3,54808	9,29099,71626,6484 38,01986,8077	9,29945,34054 39,53104	16:12
28	19560,38332,22048 17,11584,92059	19945,67397 18,14827	1 01969,74998 3,55142	9,29137,73613,4561 37,98529,1301	9,29984,87158 39,49783	16:48
29	19577,49917,14107 17,11525,28411	19963,82224 18,14953	1 01973,30140 3,55478	9,29175,72142,5862 37,95077,4956	9,30024,36941 39,46470	17:24
30	19594,61442,42518 17,11465,59550	19981,97177 18,15080	1 01976,85618 3,55813	9,29213,67220,0818 37,91631,8885	9,30063,83411 39,43161	18: 0
31	19611,72908,02068 17,11405,85476	20000,12257 18,15207	1 01980,41431 3,56149	9,29251,58851,9703 37,88192,2924	9,30103,26572 39,39860	18:36
32	19628,84313,87544 17,11346,06188	20018,27464 18,15333	1 01983,97580 3,56484	9,29289,47044,2627 37,84758,6915	9,30142,66432 39,36563	19:12
33	19645,95659,93732 17,11286,21688	20036,42797 18,15461	1 01987,54064 3,56820	9,29327,31802,9542 37,81331,0701	9,30182,02995 39,33273	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	98162,71834,47664 3,33174,02985	5 14455,40160 478,94970	5 24084,30642 470,14207	9,99194,65764,6900 1,47406,3684	10,71134,77315 40,45095	60: 0
99	98159,38660,44679 3,33473,04045	5 13976,45190 478,09118	5 23614,16435 469,28341	9,99193,18358,3216 1,47543,6700	10,71094,32220 40,41605	59:24
98	98156,05187,40634 3,33772,04087	5 13498,36072 477,23500	5 23144,88094 468,42706	9,99191,70814,6516 1,47680,9808	10,71053,90615 40,38122	58:48
97	98152,71415,36547 3,34071,03114	5 13021,12572 476,38113	5 22676,45388 467,57306	9,99190,23133,6708 1,47818,3011	10,71013,52493 40,34645	58:12
96	98149,37344,33433 3,34370,01123	5 12544,74459 475,52960	5 22208,88082 466,72137	9,99188,75315,3697 1,47955,6306	10,70973,17848 40,31175	57:36
95	98146,02974,32310 3,34668,98113	5 12069,21499 474,68036	5 21742,15945 465,87199	9,99187,27359,7391 1,48092,9695	10,70932,86673 40,27710	57: 0
94	98142,68305,34197 3,34967,94084	5 11594,53463 473,83344	5 21276,28746 465,02492	9,99185,79266,7696 1,48230,3177	10,70892,58963 40,24254	56:24
93	98139,33337,40113 3,35266,89034	5 11120,70119 472,98879	5 20811,26254 464,18013	9,99184,31036,4519 1,48367,6755	10,70852,34709 40,20802	55:48
92	98135,98070,51079 3,35565,82963	5 10647,71240 472,14645	5 20347,08241 463,33763	9,99182,82668,7764 1,48505,0424	10,70812,13907 40,17358	55:12
91	98132,62504,68116 3,35864,75871	5 10175,56595 471,30638	5 19883,74478 462,49740	9,99181,34163,7340 1,48642,4189	10,70771,96549 40,13919	54:36
90	98129,26639,92245 3,36163,67754	5 09704,25957 470,46857	5 19421,24738 461,65946	9,99179,85521,3151 1,48779,8047	10,70731,82630 40,10488	54: 0
89	98125,90476,24491 3,36462,58614	5 09233,79100 469,63303	5 18959,58792 460,82376	9,99178,36741,5104 1,48917,1999	10,70691,72142 40,07062	53:24
88	98122,54013,65877 3,36761,48449	5 08764,15797 468,79973	5 18498,76416 459,99032	9,99176,87824,3105 1,49054,6046	10,70651,65080 40,03643	52:48
87	98119,17252,17428 3,37060,37258	5 08295,35824 467,96869	5 18038,77384 459,15912	9,99175,38769,7059 1,49192,0188	10,70611,61437 40,00230	52:12
86	98115,80191,80170 3,37359,25041	5 07827,38955 467,13988	5 17579,61472 458,33016	9,99173,89577,6871 1,49329,4422	10,70571,61207 39,96823	51:36
85	98112,42832,55129 3,37658,11795	5 07360,24967 466,31329	5 17121,28456 457,50342	9,99172,40248,2449 1,49466,8753	10,70531,64384 39,93423	51: 0
84	98109,05174,43334 3,37956,97521	5 06893,93638 465,48893	5 16663,78114 456,67892	9,99170,90781,3696 1,49604,3177	10,70491,70961 39,90029	50:24
83	98105,67217,45813 3,38255,82218	5 06428,44745 464,66678	5 16207,10222 455,85661	9,99169,41177,0519 1,49741,7696	10,70451,80932 39,86641	49:48
82	98102,28961,63595 3,38554,65884	5 05963,78067 463,84684	5 15751,24561 455,03652	9,99167,91435,2823 1,49879,2310	10,70411,94291 39,83260	49:12
81	98098,90406,97711 3,38853,48519	5 05499,93383 463,02909	5 15296,20909 454,21862	9,99166,41556,0513 1,50016,7019	10,70372,11031 39,79885	48:36
80	98095,51553,49192 3,39152,30122	5 05036,90474 462,21352	5 14841,99047 453,40291	9,99164,91539,3494 1,50154,1823	10,70332,31146 39,76515	48: 0
79	98092,12401,19070 3,39451,10692	5 04574,69122 461,40015	5 14388,58756 452,58937	9,99163,41385,1671 1,50291,6722	10,70292,54631 39,73152	47:24
78	98088,72950,08378 3,39749,90227	5 04113,29107 460,58894	5 13935,99819 451,77802	9,99161,91093,4949 1,50429,1716	10,70252,81479 39,69796	46:48
77	98085,33200,18151 3,40048,68728	5 03652,70213 459,77990	5 13484,22017 450,96883	9,99160,40664,3233 1,50566,6805	10,70213,11683 39,66445	46:12
76	98081,93151,49423 3,40347,46193	5 03192,92223 458,97302	5 13033,25134 450,16179	9,99158,90097,6428 1,50704,1990	10,70173,45238 39,63100	45:36
75	98078,52804,03230 3,40646,22620	5 02733,94921 458,16828	5 12583,08955 449,35691	9,99157,39393,4438 1,50841,7270	10,70133,82138 39,59762	45: 0
74	98075,12157,80610 3,40944,98011	5 02275,78093 457,36569	5 12133,73264 448,55417	9,99155,88551,7168 1,50979,2646	10,70094,22376 39,56430	44:24
73	98071,71212,82599 3,41243,72363	5 01818,41524 456,56524	5 11685,17847 447,75355	9,99154,37572,4522 1,51116,8117	10,70054,65946 39,53104	43:48
72	98068,29969,10236 3,41542,45676	5 01361,85000 455,76691	5 11237,42492 446,95508	9,99152,86455,6405 1,51254,3684	10,70015,12842 39,49783	43:12
71	98064,88426,64560 3,41841,17947	5 00906,08309 454,97070	5 10790,46984 446,15872	9,99151,35201,2721 1,51391,9347	10,69975,63059 39,46470	42:36
70	98061,46585,46613 3,42139,89178	5 00451,11239 454,17660	5 10344,31112 445,36447	9,99149,83809,3374 1,51529,5106	10,69936,16589 39,43161	42: 0
69	98058,04445,57435 3,42438,59366	4 99996,93579 453,38462	5 09898,94665 444,57232	9,99148,32279,8268 1,51667,0960	10,69896,73428 39,39860	41:24
68	98054,62006,98069 3,42737,28512	4 99543,55117 452,59471	5 09454,37433 443,78228	9,99146,80612,7308 1,51804,6911	10,69857,33568 39,36563	40:48
67	98051,19269,69557 3,43035,96613	4 99090,95646 451,80692	5 09010,59205 442,99432	9,99145,28808,0397 1,51942,2959	10,69817,97005 39,33273	40:12

GRAD. 78.

11. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	19645,95659,93732	20036,42797	1 01987,54064	9,29327,31802,9542	9,30182,02995	19:48
	17,11286,21688	18,15461	3,56820	37,81331,0701	39,33273	
34	19663,06946,15420	20054,58258	1 01991,10884	9,29365,13134,0243	9,30221,36268	20:24
	17,11226,31974	18,15587	3,57156	37,77909,4123	39,29990	
35	19680,18172,47394	20072,73845	1 01994,68040	9,29402,91043,4366	9,30260,66258	21: 0
	17,11166,37049	18,15715	3,57491	37,74493,7021	39,26711	
36	19697,29338,84443	20090,89560	1 01998,25531	9,29440,65537,1387	9,30299,92969	21:36
	17,11106,36909	18,15842	3,57827	37,71083,9240	39,23439	
37	19714,40445,21352	20109,05402	1 02001,83358	9,29478,36621,0627	9,30339,16408	22:12
	17,11046,31559	18,15970	3,58163	37,67680,0626	39,20173	
38	19731,51491,52911	20127,21372	1 02005,41521	9,29516,04301,1253	9,30378,36581	22:48
	17,10986,20995	18,16097	3,58499	37,64282,1018	39,16912	
39	19748,62477,73906	20145,37469	1 02009,00020	9,29553,68583,2271	9,30417,53493	23:24
	17,10926,05220	18,16225	3,58835	37,60890,0265	39,13659	
40	19765,73403,79126	20163,53694	1 02012,58855	9,29591,29473,2536	9,30456,67152	24: 0
	17,10865,84234	18,16352	3,59170	37,57503,8209	39,10409	
41	19782,84269,63360	20181,70046	1 02016,18025	9,29628,86977,0745	9,30495,77561	24:36
	17,10805,58034	18,16481	3,59507	37,54123,4698	39,07167	
42	19799,95075,21394	20199,86527	1 02019,77532	9,29666,41100,5443	9,30534,84728	25:12
	17,10745,26625	18,16609	3,59843	37,50748,9576	39,03930	
43	19817,05820,48019	20218,03136	1 02023,37375	9,29703,91849,5019	9,30573,88658	25:48
	17,10684,90004	18,16737	3,60180	37,47380,2693	39,00699	
44	19834,16505,38023	20236,19873	1 02026,97555	9,29741,39229,7712	9,30612,89357	26:24
	17,10624,48172	18,16865	3,60515	37,44017,3893	38,97474	
45	19851,27129,86195	20254,36738	1 02030,58070	9,29778,83247,1605	9,30651,86831	27: 0
	17,10564,01129	18,16994	3,60852	37,40660,3026	38,94255	
46	19868,37693,87324	20272,53732	1 02034,18922	9,29816,23907,4631	9,30690,81086	27:36
	17,10503,48875	18,17122	3,61188	37,37308,9939	38,91041	
47	19885,48197,36199	20290,70854	1 02037,80110	9,29853,61216,4570	9,30729,72127	28:12
	17,10442,91410	18,17251	3,61524	37,33963,4483	38,87833	
48	19902,58640,27609	20308,88105	1 02041,41634	9,29890,95179,9053	9,30768,59960	28:48
	17,10382,28737	18,17380	3,61862	37,30623,6504	38,84631	
49	19919,69022,56346	20327,05485	1 02045,03496	9,29928,25803,5557	9,30807,44591	29:24
	17,10321,60851	18,17509	3,62197	37,27289,5856	38,81435	
50	19936,79344,17197	20345,22994	1 02048,65693	9,29965,53093,1413	9,30846,26026	30: 0
	17,10260,87757	18,17638	3,62534	37,23961,2386	38,78245	
51	19953,89605,04954	20363,40632	1 02052,28227	9,30002,77054,3799	9,30885,04271	30:36
	17,10200,09453	18,17767	3,62871	37,20638,5947	38,75059	
52	19970,99805,14407	20381,58399	1 02055,91098	9,30039,97692,9746	9,30923,79330	31:12
	17,10139,25939	18,17897	3,63208	37,17321,6391	38,71880	
53	19988,09944,40346	20399,76296	1 02059,54306	9,30077,15014,6137	9,30962,51210	31:48
	17,10078,37216	18,18026	3,63544	37,14010,3567	38,68707	
54	20005,20022,77562	20417,94322	1 02063,17850	9,30114,29024,9704	9,31001,19917	32:24
	17,10017,43283	18,18155	3,63881	37,10704,7332	38,65539	
55	20022,30040,20845	20436,12477	1 02066,81731	9,30151,39729,7036	9,31039,85456	33: 0
	17,09956,44141	18,18285	3,64218	37,07404,7535	38,62377	
56	20039,39996,64986	20454,30762	1 02070,45949	9,30188,47134,4571	9,31078,47833	33:36
	17,09895,39792	18,18416	3,64555	37,04110,4032	38,59220	
57	20056,49892,04778	20472,49178	1 02074,10504	9,30225,51244,8603	9,31117,07053	34:12
	17,09834,30232	18,18545	3,64892	37,00821,6676	38,56069	
58	20073,59726,35010	20490,67723	1 02077,75396	9,30262,52066,5279	9,31155,63122	34:48
	17,09773,15465	18,18675	3,65229	36,97538,5322	38,52925	
59	20090,69499,50475	20508,86398	1 02081,40625	9,30299,49605,0601	9,31194,16047	35:24
	17,09711,95490	18,18805	3,65566	36,94260,9825	38,49784	
60	20107,79211,45965	20527,05203	1 02085,06191	9,30336,43866,0426	9,31232,65831	36: 0
	17,09650,70305	18,18935	3,65903	36,90989,0041	38,46650	
61	20124,88862,16270	20545,24138	1 02088,72094	9,30373,34855,0467	9,31271,12481	36:36
	17,09589,39914	18,19067	3,66241	36,87722,5825	38,43522	
62	20141,98451,56184	20563,43205	1 02092,38335	9,30410,22577,6292	9,31309,56003	37:12
	17,09528,04315	18,19196	3,66578	36,84461,7035	38,40399	
63	20159,07979,60499	20581,62401	1 02096,04913	9,30447,07039,3327	9,31347,96402	37:48
	17,09466,63508	18,19328	3,66915	36,81206,3527	38,37281	
64	20176,17446,24007	20599,81729	1 02099,71828	9,30483,88245,6854	9,31386,33683	38:24
	17,09405,17494	18,19458	3,67252	36,77956,5158	38,34169	
65	20193,26851,41501	20618,01187	1 02103,39080	9,30520,66202,2012	9,31424,67852	39: 0
	17,09343,66272	18,19589	3,67590	36,74712,1788	38,31063	
66	20210,36195,07773	20636,20776	1 02107,06670	9,30557,40914,3800	9,31462,98915	39:36
	17,09282,09844	18,19720	3,67928	36,71473,3274	38,27962	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	98051,19269,69557 3,43035,96613	4 99090,95646 451,80692	5 09010,59205 442,99432	9,99145,28808,0397 1,51942,2959	10,69817,97005 39,33273	40:12
66	98047,76233,72944 3,43334,63669	4 98639,14954 451,02119	5 08567,59773 442,20845	9,99143,76865,7438 1,52079,9101	10,69778,63732 39,29990	39:36
65	98044,32899,09275 3,43633,29679	4 98188,12835 450,23754	5 08125,38928 441,42465	9,99142,24785,8337 1,52217,5342	10,69739,33742 39,26711	39: 0
64	98040,89265,79596 3,43931,94644	4 97737,89081 449,45597	5 07683,96463 440,64291	9,99140,72568,2995 1,52355,1678	10,69700,07031 39,23439	38:24
63	98037,45333,84952 3,44230,58559	4 97288,43484 448,67645	5 07243,32172 439,86325	9,99139,20213,1317 1,52492,8110	10,69660,83592 39,20173	37:48
62	98034,01103,26393 3,44529,21427	4 96839,75839 447,89898	5 06803,45847 439,08562	9,99137,67720,3207 1,52630,4640	10,69621,63419 39,16912	37:12
61	98030,56574,04966 3,44827,83244	4 96391,85941 447,12356	5 06364,37285 438,31006	9,99136,15089,8567 1,52768,1266	10,69582,46507 39,13659	36:36
60	98027,11746,21722 3,45126,44012	4 95944,73585 446,35019	5 05926,06279 437,53652	9,99134,62321,7301 1,52905,7989	10,69543,32848 39,10409	36: 0
59	98023,66619,77710 3,45425,03729	4 95498,38566 445,57884	5 05488,52627 436,76502	9,99133,09415,9312 1,53043,4810	10,69504,22439 39,07167	35:24
58	98020,21194,73981 3,45723,62392	4 95052,80682 444,80952	5 05051,76125 435,99555	9,99131,56372,4502 1,53181,1726	10,69465,15272 39,03930	34:48
57	98016,75471,11589 3,46022,20003	4 94607,99730 444,04221	5 04615,76570 435,22808	9,99130,03191,2776 1,53318,8740	10,69426,11342 39,00699	34:12
56	98013,29448,91586 3,46320,76560	4 94163,95509 443,27692	5 04180,53762 434,46264	9,99128,49872,4036 1,53456,5852	10,69387,10643 38,97474	33:36
55	98009,83128,15026 3,46619,32062	4 93720,67817 442,51362	5 03746,07498 433,69920	9,99126,96415,8184 1,53594,3060	10,69348,13169 38,94255	33: 0
54	98006,36508,82964 3,46917,86508	4 93278,16455 441,75234	5 03312,37578 432,93774	9,99125,42821,5124 1,53732,0367	10,69309,18914 38,91041	32:24
53	98002,89590,96456 3,47216,39896	4 92836,41221 440,99303	5 02879,43804 432,17829	9,99123,89089,4757 1,53869,7770	10,69270,27873 38,87833	31:48
52	97999,42374,56560 3,47514,92229	4 92395,41918 440,23571	5 02447,25975 431,42081	9,99122,35219,6987 1,54007,5272	10,69231,40040 38,84631	31:12
51	97995,94859,64331 3,47813,43501	4 91955,18347 439,48036	5 02015,83894 430,66531	9,99120,81212,1715 1,54145,2870	10,69192,55409 38,81435	30:36
50	97992,47046,20830 3,48111,93715	4 91515,70311 438,72699	5 01585,17363 429,91179	9,99119,27066,8845 1,54283,0568	10,69153,73974 38,78245	30: 0
49	97988,98934,27115 3,48410,42868	4 91076,97612 437,97558	5 01155,26184 429,16021	9,99117,72783,8277 1,54420,8362	10,69114,95729 38,75059	29:24
48	97985,50523,84247 3,48708,90960	4 90639,00054 437,22611	5 00726,10163 428,41060	9,99116,18362,9915 1,54558,6254	10,69076,20670 38,71880	28:48
47	97982,01814,93287 3,49007,37989	4 90201,77443 436,47861	5 00297,69103 427,66293	9,99114,63804,3661 1,54696,4246	10,69037,48790 38,68707	28:12
46	97978,52807,55298 3,49305,83955	4 89765,29582 435,73303	4 99870,02810 426,91721	9,99113,09107,9415 1,54834,2334	10,68998,80083 38,65539	27:36
45	97975,03501,71343 3,49604,28858	4 89329,56279 434,98941	4 99443,11089 426,17342	9,99111,54273,7081 1,54972,0521	10,68960,14544 38,62377	27: 0
44	97971,53897,42485 3,49902,72695	4 88894,57338 434,24770	4 99016,93747 425,43156	9,99109,99301,6560 1,55109,8807	10,68921,52167 38,59220	26:24
43	97968,03994,69790 3,50201,15466	4 88460,32568 433,50792	4 98591,50591 424,69162	9,99108,44191,7753 1,55247,7190	10,68882,92947 38,56069	25:48
42	97964,53793,54324 3,50499,57172	4 88026,81776 432,77005	4 98166,81429 423,95360	9,99106,88944,0563 1,55385,5674	10,68844,36878 38,52925	25:12
41	97961,03293,97152 3,50797,97808	4 87594,04771 432,03409	4 97742,86069 423,21749	9,99105,33558,4889 1,55523,4254	10,68805,83953 38,49784	24:36
40	97957,52495,99344 3,51096,37377	4 87162,01362 431,30004	4 97319,64320 422,48327	9,99103,78035,0635 1,55661,2934	10,68767,34169 38,46650	24: 0
39	97954,01399,61967 3,51394,75875	4 86730,71358 430,56787	4 96897,15993 421,75095	9,99102,22373,7701 1,55799,1713	10,68728,87519 38,43522	23:24
38	97950,50004,86092 3,51693,13304	4 86300,14571 429,83760	4 96475,40898 421,02053	9,99100,66574,5988 1,55937,0591	10,68690,43997 38,40399	22:48
37	97946,98311,72788 3,51991,49662	4 85870,30811 429,10921	4 96054,38845 420,29197	9,99099,10637,5397 1,56074,9568	10,68652,03598 38,37281	22:12
36	97943,46320,23126 3,52289,84946	4 85441,19890 428,38270	4 95634,09648 419,56531	9,99097,54562,5829 1,56212,8643	10,68613,66317 38,34169	21:36
35	97939,94030,38180 3,52588,19158	4 85012,81620 427,65805	4 95214,53117 418,84051	9,99095,98349,7186 1,56350,7818	10,68575,32148 38,31063	21: 0
34	97936,41442,19022 3,52886,52296	4 84585,15815 426,93527	4 94795,69066 418,11756	9,99094,41998,9368 1,56488,7092	10,68537,01085 38,27962	20:24

GRAD. 78.

11. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	20227,45477,17617	20654,40496	1 02110,74598	9,30594,12387,7074	9,31501,26877	40:12
	17,09220,48209	18,19851	3,68265	36,68239,9476	38,24867	
68	20244,54697,65826	20672,60347	1 02114,42863	9,30630,80627,6550	9,31539,51744	40:48
	17,09158,81367	18,19983	3,68603	36,65012,0252	38,21777	
69	20261,63856,47193	20690,80330	1 02118,11466	9,30667,45639,6802	9,31577,73521	41:24
	17,09097,09319	18,20114	3,68940	36,61789,5464	38,18692	
70	20278,72953,56512	20709,00444	1 02121,80406	9,30704,07429,2266	9,31615,92213	42: 0
	17,09035,32065	18,20246	3,69279	36,58572,4971	38,15613	
71	20295,81988,88577	20727,20690	1 02125,49685	9,30740,66001,7237	9,31654,07826	42:36
	17,08973,49605	18,20377	3,69616	36,55360,8634	38,12539	
72	20312,90962,38182	20745,41067	1 02129,19301	9,30777,21362,5871	9,31692,20365	43:12
	17,08911,61939	18,20510	3,69954	36,52154,6315	38,09471	
73	20329,99874,00121	20763,61577	1 02132,89255	9,30813,73517,2186	9,31730,29836	43:48
	17,08849,69067	18,20641	3,70291	36,48953,7876	38,06409	
74	20347,08723,69188	20781,82218	1 02136,59546	9,30850,22471,0062	9,31768,36245	44:24
	17,08787,70989	18,20773	3,70630	36,45758,3179	38,03350	
75	20364,17511,40177	20800,02991	1 02140,30176	9,30886,68229,3241	9,31806,39595	45: 0
	17,08725,67708	18,20906	3,70968	36,42568,2086	38,00299	
76	20381,26237,07885	20818,23897	1 02144,01144	9,30923,10797,5327	9,31844,39894	45:36
	17,08663,59219	18,21038	3,71306	36,39383,4462	37,97252	
77	20398,34900,67104	20836,44935	1 02147,72450	9,30959,50180,9789	9,31882,37146	46:12
	17,08601,45528	18,21170	3,71645	36,36204,0169	37,94211	
78	20415,43502,12632	20854,66105	1 02151,44095	9,30995,86384,9958	9,31920,31357	46:48
	17,08539,26630	18,21303	3,71982	36,33029,9074	37,91174	
79	20432,52041,39262	20872,87408	1 02155,16077	9,31032,19414,9032	9,31958,22531	47:24
	17,08477,02528	18,21435	3,72321	36,29861,1037	37,88144	
80	20449,60518,41790	20891,08843	1 02158,88398	9,31068,49276,0069	9,31996,10675	48: 0
	17,08414,73223	18,21569	3,72659	36,26697,5928	37,85118	
81	20466,68933,15013	20909,30412	1 02162,61057	9,31104,75973,5997	9,32033,95793	48:36
	17,08352,38712	18,21701	3,72998	36,23539,3609	37,82098	
82	20483,77285,53725	20927,52113	1 02166,34055	9,31140,99512,9606	9,32071,77891	49:12
	17,08289,98999	18,21835	3,73336	36,20386,3949	37,79084	
83	20500,85575,52724	20945,73948	1 02170,07391	9,31177,19899,3555	9,32109,56975	49:48
	17,08227,54081	18,21967	3,73674	36,17238,6812	37,76073	
84	20517,93803,06805	20963,95915	1 02173,81065	9,31213,37138,0367	9,32147,33048	50:24
	17,08165,03959	18,22101	3,74013	36,14096,2066	37,73070	
85	20535,01968,10764	20982,18016	1 02177,55078	9,31249,51234,2433	9,32185,06118	51: 0
	17,08102,48635	18,22235	3,74352	36,10958,9579	37,70070	
86	20552,10070,59399	21000,40251	1 02181,29430	9,31285,62193,2012	9,32222,76188	51:36
	17,08039,88106	18,22368	3,74691	36,07826,9218	37,67076	
87	20569,18110,47505	21018,62619	1 02185,04121	9,31321,70020,1230	9,32260,43264	52:12
	17,07977,22376	18,22502	3,75029	36,04700,0852	37,64088	
88	20586,26087,69881	21036,85121	1 02188,79150	9,31357,74720,2082	9,32298,07352	52:48
	17,07914,51443	18,22635	3,75368	36,01578,4348	37,61104	
89	20603,34002,21324	21055,07756	1 02192,54518	9,31393,76298,6430	9,32335,68456	53:24
	17,07851,75306	18,22770	3,75707	35,98461,9578	37,58126	
90	20620,41853,96630	21073,30526	1 02196,30225	9,31429,74760,6008	9,32373,26582	54: 0
	17,07788,93967	18,22903	3,76046	35,95350,6408	37,55152	
91	20637,49642,90597	21091,53429	1 02200,06271	9,31465,70111,2416	9,32410,81734	54:36
	17,07726,07426	18,23038	3,76385	35,92244,4712	37,52185	
92	20654,57368,98023	21109,76467	1 02203,82656	9,31501,62355,7128	9,32448,33919	55:12
	17,07663,15684	18,23172	3,76725	35,89143,4358	37,49222	
93	20671,65032,13707	21127,99639	1 02207,59381	9,31537,51499,1486	9,32485,83141	55:48
	17,07600,18739	18,23307	3,77063	35,86047,5217	37,46264	
94	20688,72632,32446	21146,22946	1 02211,36444	9,31573,37546,6703	9,32523,29405	56:24
	17,07537,16592	18,23441	3,77402	35,82956,7161	37,43311	
95	20705,80169,49038	21164,46387	1 02215,13846	9,31609,20503,3864	9,32560,72716	57: 0
	17,07474,09245	18,23576	3,77742	35,79871,0062	37,40364	
96	20722,87643,58283	21182,69963	1 02218,91588	9,31645,00374,3926	9,32598,13080	57:36
	17,07410,96695	18,23711	3,78081	35,76790,3792	37,37422	
97	20739,95054,54978	21200,93674	1 02222,69669	9,31680,77164,7718	9,32635,50502	58:12
	17,07347,78945	18,23846	3,78420	35,73714,8223	37,34484	
98	20757,02402,33923	21219,17520	1 02226,48089	9,31716,50879,5941	9,32672,84986	58:48
	17,07284,55994	18,23981	3,78760	35,70644,3229	37,31552	
99	20774,09686,89917	21237,41501	1 02230,26849	9,31752,21523,9170	9,32710,16538	59:24
	17,07221,27842	18,24116	3,79100	35,67578,8682	37,28625	
100	20791,16908,17759	21255,65617	1 02234,05949	9,31787,89102,7852	9,32747,45163	60: 0
	17,07157,94490	18,24251	3,79439	35,64518,4459	37,25702	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	97932,88555,66726 3,53184,84359	4 84158,22288 426,21435	4 94377,57310 417,39649	9,99092,85510,2276 1,56626,6467	10,68498,73123 38,24867	19:48
32	97929,35370,82367 3,53483,15345	4 83732,00853 425,49527	4 93960,17661 416,67725	9,99091,28883,5809 1,56764,5939	10,68460,48256 38,21777	19:12
31	97925,81887,67022 3,53781,45256	4 83306,51326 424,77804	4 93543,49936 415,95987	9,99089,72118,9870 1,56902,5512	10,68422,26479 38,18692	18:36
30	97922,28106,21766 3,54079,74089	4 82881,73522 424,06265	4 93127,53949 415,24431	9,99088,15216,4358 1,57040,5185	10,68384,07787 38,15613	18: 0
29	97918,74026,47677 3,54378,01842	4 82457,67257 423,34909	4 92712,29518 414,53060	9,99086,58175,9173 1,57178,4957	10,68345,92174 38,12539	17:24
28	97915,19648,45835 3,54676,28517	4 82034,32348 422,63735	4 92297,76458 413,81870	9,99085,00997,4216 1,57316,4829	10,68307,79635 38,09471	16:48
27	97911,64972,17318 3,54974,54111	4 81611,68613 421,92744	4 91883,94588 413,10863	9,99083,43680,9387 1,57454,4801	10,68269,70164 38,06409	16:12
26	97908,09997,63207 3,55272,78623	4 81189,75869 421,21933	4 91470,83725 412,40036	9,99081,86226,4586 1,57592,4874	10,68231,63755 38,03350	15:36
25	97904,54724,84584 3,55571,02054	4 80768,53936 420,51303	4 91058,43689 411,69391	9,99080,28633,9712 1,57730,5046	10,68193,60405 38,00299	15: 0
24	97900,99153,82530 3,55869,24402	4 80348,02633 419,80854	4 90646,74298 410,98926	9,99078,70903,4666 1,57868,5318	10,68155,60106 37,97252	14:24
23	97897,43284,58128 3,56167,45664	4 79928,21779 419,10584	4 90235,75372 410,28639	9,99077,13034,9348 1,58006,5691	10,68117,62854 37,94211	13:48
22	97893,87117,12464 3,56465,65843	4 79509,11195 418,40492	4 89825,46733 409,58532	9,99075,55028,3657 1,58144,6165	10,68079,68643 37,91174	13:12
21	97890,30651,46621 3,56763,84936	4 79090,70703 417,70579	4 89415,88201 408,88603	9,99073,96883,7492 1,58282,6739	10,68041,77469 37,88144	12:36
20	97886,73887,61685 3,57062,02941	4 78673,00124 417,00844	4 89006,99598 408,18852	9,99072,38601,0753 1,58420,7413	10,68003,89325 37,85118	12: 0
19	97883,16825,58744 3,57360,19860	4 78255,99280 416,31285	4 88598,80746 407,49277	9,99070,80180,3340 1,58558,8189	10,67966,04207 37,82098	11:24
18	97879,59465,38884 3,57658,35689	4 77839,67995 415,61903	4 88191,31469 406,79880	9,99069,21621,5151 1,58696,9064	10,67928,22109 37,79084	10:48
17	97876,01807,03195 3,57956,50429	4 77424,06092 414,92697	4 87784,51589 406,10657	9,99067,62924,6087 1,58835,0042	10,67890,43025 37,76073	10:12
16	97872,43850,52766 3,58254,64078	4 77009,13395 414,23665	4 87378,40932 405,41610	9,99066,04089,6045 1,58973,1120	10,67852,66952 37,73070	9:36
15	97868,85595,88688 3,58552,76637	4 76594,89730 413,54810	4 86972,99322 404,72737	9,99064,45116,4925 1,59111,2299	10,67814,93882 37,70070	9: 0
14	97865,27043,12051 3,58850,88103	4 76181,34920 412,86127	4 86568,26585 404,04040	9,99062,86005,2626 1,59249,3580	10,67777,23812 37,67076	8:24
13	97861,68192,23948 3,59148,98476	4 75768,48793 412,17618	4 86164,22545 403,35514	9,99061,26755,9046 1,59387,4961	10,67739,56736 37,64088	7:48
12	97858,09043,25472 3,59447,07755	4 75356,31175 411,49282	4 85760,87031 402,67163	9,99059,67368,4085 1,59525,6444	10,67701,92648 37,61104	7:12
11	97854,49596,17717 3,59745,15939	4 74944,81893 410,81118	4 85358,19868 401,98982	9,99058,07842,7641 1,59663,8029	10,67664,31544 37,58126	6:36
10	97850,89851,01778 3,60043,23027	4 74534,00775 410,13127	4 84956,20886 401,30975	9,99056,48178,9612 1,59801,9715	10,67626,73418 37,55152	6: 0
9	97847,29807,78751 3,60341,29018	4 74123,87648 409,45306	4 84554,89911 400,63138	9,99054,88376,9897 1,59940,1503	10,67589,18266 37,52185	5:24
8	97843,69466,49733 3,60639,33912	4 73714,42342 408,77655	4 84154,26773 399,95472	9,99053,28436,8394 1,60078,3392	10,67551,66081 37,49222	4:48
7	97840,08827,15821 3,60937,37707	4 73305,64687 408,10176	4 83754,31301 399,27975	9,99051,68358,5002 1,60216,5384	10,67514,16859 37,46264	4:12
6	97836,47889,78114 3,61235,40403	4 72897,54511 407,42864	4 83355,03326 398,60649	9,99050,08141,9618 1,60354,7478	10,67476,70595 37,43311	3:36
5	97832,86654,37711 3,61533,41999	4 72490,11647 406,75723	4 82956,42677 397,93490	9,99048,47787,2140 1,60492,9673	10,67439,27284 37,40364	3: 0
4	97829,25120,95712 3,61831,42492	4 72083,35924 406,08749	4 82558,49187 397,26501	9,99046,87294,2467 1,60631,1971	10,67401,86920 37,37422	2:24
3	97825,63289,53220 3,62129,41884	4 71677,27175 405,41943	4 82161,22686 396,59679	9,99045,26663,0496 1,60769,4371	10,67364,49498 37,34484	1:48
2	97822,01160,11336 3,62427,40173	4 71271,85232 404,75305	4 81764,63007 395,93024	9,99043,65893,6125 1,60907,6873	10,67327,15014 37,31552	1:12
1	97818,38732,71163 3,62725,37357	4 70867,09927 404,08832	4 81368,69983 395,26536	9,99042,04985,9252 1,61045,9477	10,67289,83462 37,28625	0:36
0	97814,76007,33806 3,63023,33438	4 70463,01095 403,42527	4 80973,43447 394,60213	9,99040,43939,9775 1,61184,2186	10,67252,54837 37,25702	0: 0

GRAD. 78.

12. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	20791,16908,17759	21255,65617	1 02234,05949	9,31787,89102,7852	9,32747,45163	0: 0
	17,07157,94490	18,24251	3,79439	35,64518,4459	37,25702	
1	20808,24066,12249	21273,89868	1 02237,85388	9,31823,53621,2311	9,32784,70865	0:36
	17,07094,55938	18,24387	3,79778	35,61463,0431	37,22786	
2	20825,31160,68187	21292,14255	1 02241,65166	9,31859,15084,2742	9,32821,93651	1:12
	17,07031,12185	18,24523	3,80118	35,58412,6473	37,19873	
3	20842,38191,80372	21310,38778	1 02245,45284	9,31894,73496,9215	9,32859,13524	1:48
	17,06967,63232	18,24658	3,80458	35,55367,2464	37,16967	
4	20859,45159,43604	21328,63436	1 02249,25742	9,31930,28864,1679	9,32896,30491	2:24
	17,06904,09080	18,24794	3,80798	35,52326,8274	37,14064	
5	20876,52063,52684	21346,88230	1 02253,06540	9,31965,81190,9953	9,32933,44555	3: 0
	17,06840,49728	18,24930	3,81138	35,49291,3783	37,11167	
6	20893,58904,02412	21365,13160	1 02256,87678	9,32001,30482,3736	9,32970,55722	3:36
	17,06776,85177	18,25066	3,81477	35,46260,8867	37,08275	
7	20910,65680,87589	21383,38226	1 02260,69155	9,32036,76743,2603	9,33007,63997	4:12
	17,06713,15426	18,25202	3,81818	35,43235,3400	37,05388	
8	20927,72394,03015	21401,63428	1 02264,50973	9,32072,19978,6003	9,33044,69385	4:48
	17,06649,40477	18,25339	3,82157	35,40214,7263	37,02505	
9	20944,79043,43492	21419,88767	1 02268,33130	9,32107,60193,3266	9,33081,71890	5:24
	17,06585,60330	18,25475	3,82498	35,37199,0331	36,99628	
10	20961,85629,03822	21438,14242	1 02272,15628	9,32142,97392,3597	9,33118,71518	6: 0
	17,06521,74983	18,25612	3,82838	35,34188,2483	36,96756	
11	20978,92150,78805	21456,39854	1 02275,98466	9,32178,31580,6080	9,33155,68274	6:36
	17,06457,84437	18,25749	3,83178	35,31182,3598	36,93888	
12	20995,98608,63242	21474,65603	1 02279,81644	9,32213,62762,9678	9,33192,62162	7:12
	17,06393,88695	18,25885	3,83519	35,28181,3553	36,91026	
13	21013,05002,51937	21492,91488	1 02283,65163	9,32248,90944,3231	9,33229,53188	7:48
	17,06329,87754	18,26023	3,83859	35,25185,2229	36,88168	
14	21030,11332,39691	21511,17511	1 02287,49022	9,32284,16129,5460	9,33266,41356	8:24
	17,06265,81615	18,26159	3,84199	35,22193,9504	36,85315	
15	21047,17598,21306	21529,43670	1 02291,33221	9,32319,38323,4964	9,33303,26671	9: 0
	17,06201,70278	18,26297	3,84539	35,19207,5261	36,82467	
16	21064,23799,91584	21547,69967	1 02295,17760	9,32354,57531,0225	9,33340,09138	9:36
	17,06137,53745	18,26434	3,84881	35,16225,9377	36,79624	
17	21081,29937,45329	21565,96401	1 02299,02641	9,32389,73756,9602	9,33376,88762	10:12
	17,06073,32013	18,26572	3,85221	35,13249,1734	36,76785	
18	21098,36010,77342	21584,22973	1 02302,87862	9,32424,87006,1336	9,33413,65547	10:48
	17,06009,05086	18,26709	3,85561	35,10277,2215	36,73953	
19	21115,42019,82428	21602,49682	1 02306,73423	9,32459,97283,3551	9,33450,39500	11:24
	17,05944,72961	18,26847	3,85902	35,07310,0699	36,71123	
20	21132,47964,55389	21620,76529	1 02310,59325	9,32495,04593,4250	9,33487,10623	12: 0
	17,05880,35639	18,26985	3,86243	35,04347,7069	36,68299	
21	21149,53844,91028	21639,03514	1 02314,45568	9,32530,08941,1319	9,33523,78922	12:36
	17,05815,93122	18,27123	3,86584	35,01390,1208	36,65481	
22	21166,59660,84150	21657,30637	1 02318,32152	9,32565,10331,2527	9,33560,44403	13:12
	17,05751,45407	18,27261	3,86925	34,98437,2997	36,62666	
23	21183,65412,29557	21675,57898	1 02322,19077	9,32600,08768,5524	9,33597,07069	13:48
	17,05686,92498	18,27400	3,87266	34,95489,2322	36,59857	
24	21200,71099,22055	21693,85298	1 02326,06343	9,32635,04257,7846	9,33633,66926	14:24
	17,05622,34391	18,27537	3,87607	34,92545,9063	36,57051	
25	21217,76721,56446	21712,12835	1 02329,93950	9,32669,96803,6909	9,33670,23977	15: 0
	17,05557,71090	18,27677	3,87948	34,89607,3108	36,54252	
26	21234,82279,27536	21730,40512	1 02333,81898	9,32704,86411,0017	9,33706,78229	15:36
	17,05493,02594	18,27815	3,88289	34,86673,4337	36,51456	
27	21251,87772,30130	21748,68327	1 02337,70187	9,32739,73084,4354	9,33743,29685	16:12
	17,05428,28901	18,27953	3,88630	34,83744,2637	36,48666	
28	21268,93200,59031	21766,96280	1 02341,58817	9,32774,56828,6991	9,33779,78351	16:48
	17,05363,50014	18,28093	3,88972	34,80819,7894	36,45880	
29	21285,98564,09045	21785,24373	1 02345,47789	9,32809,37648,4885	9,33816,24231	17:24
	17,05298,65932	18,28231	3,89313	34,77899,9991	36,43098	
30	21303,03862,74977	21803,52604	1 02349,37102	9,32844,15548,4876	9,33852,67329	18: 0
	17,05233,76655	18,28371	3,89654	34,74984,8815	36,40322	
31	21320,09096,51632	21821,80975	1 02353,26756	9,32878,90533,3691	9,33889,07651	18:36
	17,05168,82184	18,28510	3,89996	34,72074,4251	36,37550	
32	21337,14265,33816	21840,09485	1 02357,16752	9,32913,62607,7942	9,33925,45201	19:12
	17,05103,82519	18,28649	3,90338	34,69168,6189	36,34783	
33	21354,19369,16335	21858,38134	1 02361,07090	9,32948,31776,4131	9,33961,79984	19:48
	17,05038,77659	18,28789	3,90679	34,66267,4512	36,32021	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	97814,76007,33806 3,63023,33438	4 70463,01095 403,42527	4 80973,43447 394,60213	9,99040,43939,9775 1,61184,2186	10,67252,54837 37,25702	60: 0
99	97811,12984,00368 3,63321,28411	4 70059,58568 402,76386	4 80578,83234 393,94057	9,99038,82755,7589 1,61322,4995	10,67215,29135 37,22786	59:24
98	97807,49662,71957 3,63619,22278	4 69656,82182 402,10410	4 80184,89177 393,28065	9,99037,21433,2594 1,61460,7908	10,67178,06349 37,19873	58:48
97	97803,86043,49679 3,63917,15038	4 69254,71772 401,44600	4 79791,61112 392,62238	9,99035,59972,4686 1,61599,0923	10,67140,86476 37,16967	58:12
96	97800,22126,34641 3,64215,06689	4 68853,27172 400,78952	4 79398,98874 391,96574	9,99033,98373,3763 1,61737,4042	10,67103,69509 37,14064	57:36
95	97796,57911,27952 3,64512,97230	4 68452,48220 400,13468	4 79007,02300 391,31075	9,99032,36635,9721 1,61875,7263	10,67066,55445 37,11167	57: 0
94	97792,93398,30722 3,64810,86662	4 68052,34752 399,48148	4 78615,71225 390,65737	9,99030,74760,2458 1,62014,0588	10,67029,44278 37,08275	56:24
93	97789,28587,44060 3,65108,74981	4 67652,86604 398,82988	4 78225,05488 390,00562	9,99029,12746,1870 1,62152,4016	10,66992,36003 37,05388	55:48
92	97785,63478,69079 3,65406,62189	4 67254,03616 398,17992	4 77835,04926 389,35548	9,99027,50593,7854 1,62290,7546	10,66955,30615 37,02505	55:12
91	97781,98072,06890 3,65704,48284	4 66855,85624 397,53155	4 77445,69378 388,70696	9,99025,88303,0308 1,62429,1182	10,66918,28110 36,99628	54:36
90	97778,32367,58606 3,66002,33264	4 66458,32469 396,88480	4 77056,98682 388,06005	9,99024,25873,9126 1,62567,4919	10,66881,28482 36,96756	54: 0
89	97774,66365,25342 3,66300,17130	4 66061,43989 396,23965	4 76668,92677 387,41473	9,99022,63306,4207 1,62705,8761	10,66844,31726 36,93888	53:24
88	97771,00065,08212 3,66597,99880	4 65665,20024 395,59610	4 76281,51204 386,77101	9,99021,00600,5446 1,62844,2706	10,66807,37838 36,91026	52:48
87	97767,33467,08332 3,66895,81513	4 65269,60414 394,95412	4 75894,74103 386,12888	9,99019,37756,2740 1,62982,6756	10,66770,46812 36,88168	52:12
86	97763,66571,26819 3,67193,62028	4 64874,65002 394,31375	4 75508,61215 385,48834	9,99017,74773,5984 1,63121,0908	10,66733,58644 36,85315	51:36
85	97759,99377,64791 3,67491,41426	4 64480,33627 393,67495	4 75123,12381 384,84938	9,99016,11652,5076 1,63259,5165	10,66696,73329 36,82467	51: 0
84	97756,31886,23365 3,67789,19703	4 64086,66132 393,03773	4 74738,27443 384,21198	9,99014,48392,9911 1,63397,9527	10,66659,90862 36,79624	50:24
83	97752,64097,03662 3,68086,96860	4 63693,62359 392,40207	4 74354,06245 383,57617	9,99012,84995,0384 1,63536,3991	10,66623,11238 36,76785	49:48
82	97748,96010,06802 3,68384,72896	4 63301,22152 391,76798	4 73970,48628 382,94191	9,99011,21458,6393 1,63674,8561	10,66586,34453 36,73953	49:12
81	97745,27625,33906 3,68682,47810	4 62909,45354 391,13544	4 73587,54437 382,30922	9,99009,57783,7832 1,63813,3235	10,66549,60500 36,71123	48:36
80	97741,58942,86096 3,68980,21601	4 62518,31810 390,50448	4 73205,23515 381,67807	9,99007,93970,4597 1,63951,8013	10,66512,89377 36,68299	48: 0
79	97737,89962,64495 3,69277,94267	4 62127,81362 389,87504	4 72823,55708 381,04849	9,99006,30018,6584 1,64090,2896	10,66476,21078 36,65481	47:24
78	97734,20684,70228 3,69575,65809	4 61737,93858 389,24716	4 72442,50859 380,42044	9,99004,65928,3688 1,64228,7884	10,66439,55597 36,62666	46:48
77	97730,51109,04419 3,69873,36226	4 61348,69142 388,62082	4 72062,08815 379,79393	9,99003,01699,5804 1,64367,2976	10,66402,92931 36,59857	46:12
76	97726,81235,68193 3,70171,05514	4 60960,07060 387,99601	4 71682,29422 379,16895	9,99001,37332,2828 1,64505,8173	10,66366,33074 36,57051	45:36
75	97723,11064,62679 3,70468,73676	4 60572,07459 387,37273	4 71303,12527 378,54551	9,98999,72826,4655 1,64644,3475	10,66329,76023 36,54252	45: 0
74	97719,40595,89003 3,70766,40710	4 60184,70186 386,75098	4 70924,57976 377,92359	9,98998,08182,1180 1,64782,8882	10,66293,21771 36,51456	44:24
73	97715,69829,48293 3,71064,06613	4 59797,95088 386,13073	4 70546,65617 377,30318	9,98996,43399,2298 1,64921,4395	10,66256,70315 36,48666	43:48
72	97711,98765,41680 3,71361,71387	4 59411,82015 385,51202	4 70169,35299 376,68430	9,98994,78477,7903 1,65060,0012	10,66220,21649 36,45880	43:12
71	97708,27403,70293 3,71659,35029	4 59026,30813 384,89480	4 69792,66869 376,06692	9,98993,13417,7891 1,65198,5735	10,66183,75769 36,43098	42:36
70	97704,55744,35264 3,71956,97540	4 58641,41333 384,27909	4 69416,60177 375,45104	9,98991,48219,2156 1,65337,1563	10,66147,32671 36,40322	42: 0
69	97700,83787,37724 3,72254,58916	4 58257,13424 383,66489	4 69041,15073 374,83667	9,98989,82882,0593 1,65475,7496	10,66110,92349 36,37550	41:24
68	97697,11532,78808 3,72552,19159	4 57873,46935 383,05217	4 68666,31406 374,22378	9,98988,17406,3097 1,65614,3537	10,66074,54799 36,34783	40:48
67	97693,38980,59649 3,72849,78268	4 57490,41718 382,44094	4 68292,09028 373,61240	9,98986,51791,9560 1,65752,9681	10,66038,20016 36,32021	40:12

GRAD. 77.

12. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	21354,19369,16335	21858,38134	1 02361,07090	9,32948,31776,4131	9,33961,79984	19:48
	17,05038,77659	18,28789	3,90679	34,66267,4512	36,32021	
34	21371,24407,93994	21876,66923	1 02364,97769	9,32982,98043,8643	9,33998,12005	20:24
	17,04973,67607	18,28929	3,91020	34,63370,9109	36,29262	
35	21388,29381,61601	21894,95852	1 02368,88789	9,33017,61414,7752	9,34034,41267	21: 0
	17,04908,52359	18,29068	3,91363	34,60478,9866	36,26510	
36	21405,34290,13960	21913,24920	1 02372,80152	9,33052,21893,7618	9,34070,67777	21:36
	17,04843,31919	18,29209	3,91704	34,57591,6674	36,23760	
37	21422,39133,45879	21931,54129	1 02376,71856	9,33086,79485,4292	9,34106,91537	22:12
	17,04778,06286	18,29348	3,92046	34,54708,9420	36,21017	
38	21439,43911,52165	21949,83477	1 02380,63902	9,33121,34194,3712	9,34143,12554	22:48
	17,04712,75459	18,29488	3,92388	34,51830,7990	36,18277	
39	21456,48624,27624	21968,12965	1 02384,56290	9,33155,86025,1702	9,34179,30831	23:24
	17,04647,39439	18,29629	3,92730	34,48957,2277	36,15542	
40	21473,53271,67063	21986,42594	1 02388,49020	9,33190,34982,3979	9,34215,46373	24: 0
	17,04581,98228	18,29769	3,93072	34,46088,2169	36,12812	
41	21490,57853,65291	22004,72363	1 02392,42092	9,33224,81070,6148	9,34251,59185	24:36
	17,04516,51822	18,29910	3,93414	34,43223,7555	36,10086	
42	21507,62370,17113	22023,02273	1 02396,35506	9,33259,24294,3703	9,34287,69271	25:12
	17,04451,00226	18,30051	3,93757	34,40363,8327	36,07364	
43	21524,66821,17339	22041,32324	1 02400,29263	9,33293,64658,2030	9,34323,76635	25:48
	17,04385,43437	18,30191	3,94098	34,37508,4372	36,04648	
44	21541,71206,60776	22059,62515	1 02404,23361	9,33328,02166,6402	9,34359,81283	26:24
	17,04319,81457	18,30332	3,94441	34,34657,5584	36,01936	
45	21558,75526,42233	22077,92847	1 02408,17802	9,33362,36824,1986	9,34395,83219	27: 0
	17,04254,14284	18,30473	3,94783	34,31811,1854	35,99229	
46	21575,79780,56517	22096,23320	1 02412,12585	9,33396,68635,3840	9,34431,82448	27:36
	17,04188,41920	18,30615	3,95126	34,28969,3072	35,96525	
47	21592,83968,98437	22114,53935	1 02416,07711	9,33430,97604,6912	9,34467,78973	28:12
	17,04122,64365	18,30755	3,95468	34,26131,9131	35,93827	
48	21609,88091,62802	22132,84690	1 02420,03179	9,33465,23736,6043	9,34503,72800	28:48
	17,04056,81619	18,30898	3,95811	34,23298,9923	35,91132	
49	21626,92148,44421	22151,15588	1 02423,98990	9,33499,47035,5966	9,34539,63932	29:24
	17,03990,93682	18,31038	3,96153	34,20470,5340	35,88443	
50	21643,96139,38103	22169,46626	1 02427,95143	9,33533,67506,1306	9,34575,52375	30: 0
	17,03925,00554	18,31181	3,96496	34,17646,5276	35,85757	
51	21661,00064,38657	22187,77807	1 02431,91639	9,33567,85152,6582	9,34611,38132	30:36
	17,03859,02236	18,31322	3,96839	34,14826,9623	35,83077	
52	21678,03923,40893	22206,09129	1 02435,88478	9,33601,99979,6205	9,34647,21209	31:12
	17,03792,98728	18,31464	3,97181	34,12011,8275	35,80401	
53	21695,07716,39621	22224,40593	1 02439,85659	9,33636,11991,4480	9,34683,01610	31:48
	17,03726,90029	18,31607	3,97525	34,09201,1128	35,77728	
54	21712,11443,29650	22242,72200	1 02443,83184	9,33670,21192,5608	9,34718,79338	32:24
	17,03660,76142	18,31748	3,97867	34,06394,8072	35,75061	
55	21729,15104,05792	22261,03948	1 02447,81051	9,33704,27587,3680	9,34754,54399	33: 0
	17,03594,57063	18,31891	3,98211	34,03592,9006	35,72399	
56	21746,18698,62855	22279,35839	1 02451,79262	9,33738,31180,2686	9,34790,26798	33:36
	17,03528,32796	18,32034	3,98553	34,00795,3822	35,69739	
57	21763,22226,95651	22297,67873	1 02455,77815	9,33772,31975,6508	9,34825,96537	34:12
	17,03462,03339	18,32176	3,98897	33,98002,2417	35,67085	
58	21780,25688,98990	22316,00049	1 02459,76712	9,33806,29977,8925	9,34861,63622	34:48
	17,03395,68693	18,32318	3,99240	33,95213,4686	35,64435	
59	21797,29084,67683	22334,32367	1 02463,75952	9,33840,25191,3611	9,34897,28057	35:24
	17,03329,28860	18,32462	3,99583	33,92429,0524	35,61790	
60	21814,32413,96543	22352,64829	1 02467,75535	9,33874,17620,4135	9,34932,89847	36: 0
	17,03262,83836	18,32605	3,99926	33,89648,9829	35,59149	
61	21831,35676,80379	22370,97434	1 02471,75461	9,33908,07269,3964	9,34968,48996	36:36
	17,03196,33624	18,32747	4,00270	33,86873,2496	35,56511	
62	21848,38873,14003	22389,30181	1 02475,75731	9,33941,94142,6460	9,35004,05507	37:12
	17,03129,78225	18,32891	4,00613	33,84101,8424	35,53880	
63	21865,42002,92228	22407,63072	1 02479,76344	9,33975,78244,4884	9,35039,59387	37:48
	17,03063,17637	18,33034	4,00957	33,81334,7508	35,51251	
64	21882,45066,09865	22425,96106	1 02483,77301	9,34009,59579,2392	9,35075,10638	38:24
	17,02996,51861	18,33178	4,01300	33,78571,9647	35,48627	
65	21899,48062,61726	22444,29284	1 02487,78601	9,34043,38151,2039	9,35110,59265	39: 0
	17,02929,80898	18,33322	4,01644	33,75813,4738	35,46008	
66	21916,50992,42624	22462,62606	1 02491,80245	9,34077,13964,6777	9,35146,05273	39:36
	17,02863,04747	18,33465	4,01988	33,73059,2681	35,43392	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	97693,38980,59649 3,72849,78268	4 57490,41718 382,44094	4 68292,09028 373,61240	9,98986,51791,9560 1,65752,9681	10,66038,20016 36,32021	40:12
66	97689,66130,81381 3,73147,36240	4 57107,97624 381,83121	4 67918,47788 373,00249	9,98984,86038,9879 1,65891,5932	10,66001,87995 36,29262	39:36
65	97685,92983,45141 3,73444,93076	4 56726,14503 381,22295	4 67545,47539 372,39407	9,98983,20147,3947 1,66030,2289	10,65965,58733 36,26510	39: 0
64	97682,19538,52065 3,73742,48774	4 56344,92208 380,61616	4 67173,08132 371,78711	9,98981,54117,1658 1,66168,8752	10,65929,32223 36,23760	38:24
63	97678,45796,03291 3,74040,03334	4 55964,30592 380,01085	4 66801,29421 371,18164	9,98979,87948,2906 1,66307,5320	10,65893,08463 36,21017	37:48
62	97674,71755,99957 3,74337,56755	4 55584,29507 379,40700	4 66430,11257 370,57762	9,98978,21640,7586 1,66446,1996	10,65856,87446 36,18277	37:12
61	97670,97418,43202 3,74635,09034	4 55204,88807 378,80462	4 66059,53495 369,97507	9,98976,55194,5590 1,66584,8777	10,65820,69169 36,15542	36:36
60	97667,22783,34168 3,74932,60173	4 54826,08345 378,20369	4 65689,55988 369,37397	9,98974,88609,6813 1,66723,5665	10,65784,53627 36,12812	36: 0
59	97663,47850,73995 3,75230,10170	4 54447,87976 377,60421	4 65320,18591 368,77432	9,98973,21886,1148 1,66862,2659	10,65748,40815 36,10086	35:24
58	97659,72620,63825 3,75527,59024	4 54070,27555 377,00618	4 64951,41159 368,17613	9,98971,55023,8489 1,67000,9761	10,65712,30729 36,07364	34:48
57	97655,97093,04801 3,75825,06734	4 53693,26937 376,40959	4 64583,23546 367,57937	9,98969,88022,8728 1,67139,6967	10,65676,23365 36,04648	34:12
56	97652,21267,98067 3,76122,53298	4 53316,85978 375,81445	4 64215,65609 366,98406	9,98968,20883,1761 1,67278,4282	10,65640,18717 36,01936	33:36
55	97648,45145,44769 3,76419,98718	4 52941,04533 375,22072	4 63848,67203 366,39017	9,98966,53604,7479 1,67417,1703	10,65604,16781 35,99229	33: 0
54	97644,68725,46051 3,76717,42991	4 52565,82461 374,62844	4 63482,28186 365,79771	9,98964,86187,5776 1,67555,9232	10,65568,17552 35,96525	32:24
53	97640,92008,03060 3,77014,86115	4 52191,19617 374,03758	4 63116,48415 365,20668	9,98963,18631,6544 1,67694,6867	10,65532,21027 35,93827	31:48
52	97637,14993,16945 3,77312,28092	4 51817,15859 373,44812	4 62751,27747 364,61707	9,98961,50936,9677 1,67833,4609	10,65496,27200 35,91132	31:12
51	97633,37680,88853 3,77609,68920	4 51443,71047 372,86010	4 62386,66040 364,02887	9,98959,83103,5068 1,67972,2458	10,65460,36068 35,88443	30:36
50	97629,60071,19933 3,77907,08596	4 51070,85037 372,27348	4 62022,63153 363,44208	9,98958,15131,2610 1,68111,0416	10,65424,47625 35,85757	30: 0
49	97625,82164,11337 3,78204,47122	4 50698,57689 371,68827	4 61659,18945 362,85670	9,98956,47020,2194 1,68249,8480	10,65388,61868 35,83077	29:24
48	97622,03959,64215 3,78501,84496	4 50326,88862 371,10446	4 61296,33275 362,27271	9,98954,78770,3714 1,68388,6653	10,65352,78791 35,80401	28:48
47	97618,25457,79719 3,78799,20717	4 49955,78416 370,52204	4 60934,06004 361,69014	9,98953,10381,7061 1,68527,4932	10,65316,98390 35,77728	28:12
46	97614,46658,59002 3,79096,55783	4 49585,26212 369,94102	4 60572,36990 361,10894	9,98951,41854,2129 1,68666,3319	10,65281,20662 35,75061	27:36
45	97610,67562,03219 3,79393,89696	4 49215,32110 369,36138	4 60211,26096 360,52914	9,98949,73187,8810 1,68805,1815	10,65245,45601 35,72399	27: 0
44	97606,88168,13523 3,79691,22452	4 48845,95972 368,78313	4 59850,73182 359,95072	9,98948,04382,6995 1,68944,0418	10,65209,73202 35,69739	26:24
43	97603,08476,91071 3,79988,54052	4 48477,17659 368,20626	4 59490,78110 359,37367	9,98946,35438,6577 1,69082,9129	10,65174,03463 35,67085	25:48
42	97599,28488,37019 3,80285,84494	4 48108,97033 367,63077	4 59131,40743 358,79801	9,98944,66355,7448 1,69221,7949	10,65138,36378 35,64435	25:12
41	97595,48202,52525 3,80583,13778	4 47741,33956 367,05664	4 58772,60942 358,22372	9,98942,97133,9499 1,69360,6876	10,65102,71943 35,61790	24:36
40	97591,67619,38747 3,80880,41902	4 47374,28292 366,48388	4 58414,38570 357,65078	9,98941,27773,2623 1,69499,5912	10,65067,10153 35,59149	24: 0
39	97587,86738,96845 3,81177,68867	4 47007,79904 365,91248	4 58056,73492 357,07922	9,98939,58273,6711 1,69638,5057	10,65031,51004 35,56511	23:24
38	97584,05561,27978 3,81474,94670	4 46641,88656 365,34244	4 57699,65570 356,50900	9,98937,88635,1654 1,69777,4310	10,64995,94493 35,53880	22:48
37	97580,24086,33308 3,81772,19310	4 46276,54412 364,77376	4 57343,14670 355,94015	9,98936,18857,7344 1,69916,3671	10,64960,40613 35,51251	22:12
36	97576,42314,13998 3,82069,42790	4 45911,77036 364,20641	4 56987,20655 355,37264	9,98934,48941,3673 1,70055,3141	10,64924,89362 35,48627	21:36
35	97572,60244,71208 3,82366,65103	4 45547,56395 363,64042	4 56631,83391 354,80647	9,98932,78886,0532 1,70194,2721	10,64889,40735 35,46008	21: 0
34	97568,77878,06105 3,82663,86253	4 45183,92353 363,07577	4 56277,02744 354,24165	9,98931,08691,7811 1,70333,2408	10,64853,94727 35,43392	20:24

GRAD. 77.

12. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	21933,53855,47371	22480,96071	1 02495,82233	9,34110,87023,9458	9,35181,48665	40:12
	17,02796,23409	18,33609	4,02331	33,70309,3372	35,40782	
68	21950,56651,70780	22499,29680	1 02499,84564	9,34144,57333,2830	9,35216,89447	40:48
	17,02729,36885	18,33753	4,02675	33,67563,6711	35,38175	
69	21967,59381,07665	22517,63433	1 02503,87239	9,34178,24896,9541	9,35252,27622	41:24
	17,02662,45173	18,33897	4,03020	33,64822,2598	35,35572	
70	21984,62043,52838	22535,97330	1 02507,90259	9,34211,89719,2139	9,35287,63194	42: 0
	17,02595,48274	18,34041	4,03363	33,62085,0932	35,32975	
71	22001,64639,01112	22554,31371	1 02511,93622	9,34245,51804,3071	9,35322,96169	42:36
	17,02528,46190	18,34186	4,03707	33,59352,1613	35,30380	
72	22018,67167,47302	22572,65557	1 02515,97329	9,34279,11156,4684	9,35358,26549	43:12
	17,02461,38918	18,34331	4,04051	33,56623,4540	35,27791	
73	22035,69628,86220	22590,99888	1 02520,01380	9,34312,67779,9224	9,35393,54340	43:48
	17,02394,26462	18,34475	4,04396	33,53898,9614	35,25205	
74	22052,72023,12682	22609,34363	1 02524,05776	9,34346,21678,8838	9,35428,79545	44:24
	17,02327,08819	18,34620	4,04740	33,51178,6738	35,22624	
75	22069,74350,21501	22627,68983	1 02528,10516	9,34379,72857,5576	9,35464,02169	45: 0
	17,02259,85991	18,34764	4,05084	33,48462,5809	35,20047	
76	22086,76610,07492	22646,03747	1 02532,15600	9,34413,21320,1385	9,35499,22216	45:36
	17,02192,57977	18,34910	4,05428	33,45750,6732	35,17474	
77	22103,78802,65469	22664,38657	1 02536,21028	9,34446,67070,8117	9,35534,39690	46:12
	17,02125,24778	18,35055	4,05773	33,43042,9406	35,14906	
78	22120,80927,90247	22682,73712	1 02540,26801	9,34480,10113,7523	9,35569,54596	46:48
	17,02057,86395	18,35200	4,06117	33,40339,3735	35,12341	
79	22137,82985,76642	22701,08912	1 02544,32918	9,34513,50453,1258	9,35604,66937	47:24
	17,01990,42825	18,35346	4,06462	33,37639,9620	35,09781	
80	22154,84976,19467	22719,44258	1 02548,39380	9,34546,88093,0878	9,35639,76718	48: 0
	17,01922,94073	18,35491	4,06807	33,34944,6966	35,07224	
81	22171,86899,13540	22737,79749	1 02552,46187	9,34580,23037,7844	9,35674,83942	48:36
	17,01855,40135	18,35637	4,07151	33,32253,5672	35,04673	
82	22188,88754,53675	22756,15386	1 02556,53338	9,34613,55291,3516	9,35709,88615	49:12
	17,01787,81014	18,35783	4,07496	33,29566,5644	35,02125	
83	22205,90542,34689	22774,51169	1 02560,60834	9,34646,84857,9160	9,35744,90740	49:48
	17,01720,16707	18,35929	4,07841	33,26883,6784	34,99581	
84	22222,92262,51396	22792,87098	1 02564,68675	9,34680,11741,5944	9,35779,90321	50:24
	17,01652,47219	18,36074	4,08185	33,24204,8999	34,97041	
85	22239,93914,98615	22811,23172	1 02568,76860	9,34713,35946,4943	9,35814,87362	51: 0
	17,01584,72546	18,36221	4,08531	33,21530,2189	34,94506	
86	22256,95499,71161	22829,59393	1 02572,85391	9,34746,57476,7132	9,35849,81868	51:36
	17,01516,92689	18,36368	4,08876	33,18859,6260	34,91975	
87	22273,97016,63850	22847,95761	1 02576,94267	9,34779,76336,3392	9,35884,73843	52:12
	17,01449,07650	18,36513	4,09220	33,16193,1118	34,89447	
88	22290,98465,71500	22866,32274	1 02581,03487	9,34812,92529,4510	9,35919,63290	52:48
	17,01381,17428	18,36661	4,09566	33,13530,6667	34,86924	
89	22307,99846,88928	22884,68935	1 02585,13053	9,34846,06060,1177	9,35954,50214	53:24
	17,01313,22023	18,36807	4,09912	33,10872,2811	34,84405	
90	22325,01160,10951	22903,05742	1 02589,22965	9,34879,16932,3988	9,35989,34619	54: 0
	17,01245,21436	18,36954	4,10256	33,08217,9458	34,81890	
91	22342,02405,32387	22921,42696	1 02593,33221	9,34912,25150,3446	9,36024,16509	54:36
	17,01177,15666	18,37101	4,10602	33,05567,6512	34,79378	
92	22359,03582,48053	22939,79797	1 02597,43823	9,34945,30717,9958	9,36058,95887	55:12
	17,01109,04714	18,37248	4,10947	33,02921,3881	34,76872	
93	22376,04691,52767	22958,17045	1 02601,54770	9,34978,33639,3839	9,36093,72759	55:48
	17,01040,88581	18,37395	4,11293	33,00279,1470	34,74369	
94	22393,05732,41348	22976,54440	1 02605,66063	9,35011,33918,5309	9,36128,47128	56:24
	17,00972,67265	18,37543	4,11638	32,97640,9186	34,71870	
95	22410,06705,08613	22994,91983	1 02609,77701	9,35044,31559,4495	9,36163,18998	57: 0
	17,00904,40768	18,37690	4,11984	32,95006,6936	34,69374	
96	22427,07609,49381	23013,29673	1 02613,89685	9,35077,26566,1431	9,36197,88372	57:36
	17,00836,09091	18,37838	4,12329	32,92376,4627	34,66884	
97	22444,08445,58472	23031,67511	1 02618,02014	9,35110,18942,6058	9,36232,55256	58:12
	17,00767,72231	18,37985	4,12676	32,89750,2170	34,64397	
98	22461,09213,30703	23050,05496	1 02622,14690	9,35143,08692,8228	9,36267,19653	58:48
	17,00699,30191	18,38134	4,13021	32,87127,9467	34,61914	
99	22478,09912,60894	23068,43630	1 02626,27711	9,35175,95820,7695	9,36301,81567	59:24
	17,00630,82971	18,38281	4,13367	32,84509,6431	34,59435	
100	22495,10543,43865	23086,81911	1 02630,41078	9,35208,80330,4126	9,36336,41002	60: 0
	17,00562,30570	18,38430	4,13713	32,81895,2968	34,56960	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	97564,95214,19852 3,82961,06237	4 44820,84776 362,51246	4 55922,78579 353,67817	9,98929,38358,5403 1,70472,2206	10,64818,51335 35,40782	19:48
32	97561,12253,13615 3,83258,25054	4 44458,33530 361,95046	4 55569,10762 353,11600	9,98927,67886,3197 1,70611,2112	10,64783,10553 35,38175	19:12
31	97557,28994,88561 3,83555,42704	4 44096,38484 361,38982	4 55215,99162 352,55518	9,98925,97275,1085 1,70750,2127	10,64747,72378 35,35572	18:36
30	97553,45439,45857 3,83852,59186	4 43734,99502 360,83047	4 54863,43644 351,99567	9,98924,26524,8958 1,70889,2251	10,64712,36806 35,32975	18: 0
29	97549,61586,86671 3,84149,74498	4 43374,16455 360,27247	4 54511,44077 351,43749	9,98922,55635,6707 1,71028,2486	10,64677,03831 35,30380	17:24
28	97545,77437,12173 3,84446,88640	4 43013,89208 359,71576	4 54160,00328 350,88062	9,98920,84607,4221 1,71167,2830	10,64641,73451 35,27791	16:48
27	97541,92990,23533 3,84744,01611	4 42654,17632 359,16038	4 53809,12266 350,32505	9,98919,13440,1391 1,71306,3282	10,64606,45660 35,25205	16:12
26	97538,08246,21922 3,85041,13409	4 42295,01594 358,60630	4 53458,79761 349,77081	9,98917,42133,8109 1,71445,3845	10,64571,20455 35,22624	15:36
25	97534,23205,08513 3,85338,24036	4 41936,40964 358,05352	4 53109,02680 349,21785	9,98915,70688,4264 1,71584,4518	10,64535,97831 35,20047	15: 0
24	97530,37866,84477 3,85635,33488	4 41578,35612 357,50204	4 52759,80895 348,66621	9,98913,99103,9746 1,71723,5301	10,64500,77784 35,17474	14:24
23	97526,52231,50989 3,85932,41766	4 41220,85408 356,95186	4 52411,14274 348,11585	9,98912,27380,4445 1,71862,6193	10,64465,60310 35,14906	13:48
22	97522,66299,09223 3,86229,48867	4 40863,90222 356,40296	4 52063,02689 347,56678	9,98910,55517,8252 1,72001,7195	10,64430,45404 35,12341	13:12
21	97518,80069,60356 3,86526,54793	4 40507,49926 355,85536	4 51715,46011 347,01900	9,98908,83516,1057 1,72140,8309	10,64395,33063 35,09781	12:36
20	97514,93543,05563 3,86823,59540	4 40151,64390 355,30904	4 51368,44111 346,47251	9,98907,11375,2748 1,72279,9531	10,64360,23282 35,07224	12: 0
19	97511,06719,46023 3,87120,63111	4 39796,33486 354,76399	4 51021,96860 345,92729	9,98905,39095,3217 1,72419,0865	10,64325,16058 35,04673	11:24
18	97507,19598,82912 3,87417,65501	4 39441,57087 354,22022	4 50676,04131 345,38335	9,98903,66676,2352 1,72558,2309	10,64290,11385 35,02125	10:48
17	97503,32181,17411 3,87714,66711	4 39087,35065 353,67772	4 50330,65796 344,84067	9,98901,94118,0043 1,72697,3864	10,64255,09260 34,99581	10:12
16	97499,44466,50700 3,88011,66740	4 38733,67293 353,13649	4 49985,81729 344,29927	9,98900,21420,6179 1,72836,5528	10,64220,09679 34,97041	9:36
15	97495,56454,83960 3,88308,65587	4 38380,53644 352,59652	4 49641,51802 343,75913	9,98898,48584,0651 1,72975,7305	10,64185,12638 34,94506	9: 0
14	97491,68146,18373 3,88605,63252	4 38027,93992 352,05782	4 49297,75889 343,22024	9,98896,75608,3346 1,73114,9191	10,64150,18132 34,91975	8:24
13	97487,79540,55121 3,88902,59732	4 37675,88210 351,52035	4 48954,53865 342,68261	9,98895,02493,4155 1,73254,1190	10,64115,26157 34,89447	7:48
12	97483,90637,95389 3,89199,55029	4 37324,36175 350,98415	4 48611,85604 342,14623	9,98893,29239,2965 1,73393,3298	10,64080,36710 34,86924	7:12
11	97480,01438,40360 3,89496,49138	4 36973,37760 350,44920	4 48269,70981 341,61111	9,98891,55845,9667 1,73532,5518	10,64045,49786 34,84405	6:36
10	97476,11941,91222 3,89793,42063	4 36622,92840 349,91548	4 47928,09870 341,07721	9,98889,82313,4149 1,73671,7849	10,64010,65381 34,81890	6: 0
9	97472,22148,49159 3,90090,33799	4 36273,01292 349,38300	4 47587,02149 340,54457	9,98888,08641,6300 1,73811,0292	10,63975,83491 34,79378	5:24
8	97468,32058,15360 3,90387,24347	4 35923,62992 348,85177	4 47246,47692 340,01315	9,98886,34830,6008 1,73950,2847	10,63941,04113 34,76872	4:48
7	97464,41670,91013 3,90684,13707	4 35574,77815 348,32177	4 46906,46377 339,48298	9,98884,60880,3161 1,74089,5511	10,63906,27241 34,74369	4:12
6	97460,50986,77306 3,90981,01875	4 35226,45638 347,79298	4 46566,98079 338,95402	9,98882,86790,7650 1,74228,8290	10,63871,52872 34,71870	3:36
5	97456,60005,75431 3,91277,88854	4 34878,66340 347,26543	4 46228,02677 338,42629	9,98881,12561,9360 1,74368,1178	10,63836,81002 34,69374	3: 0
4	97452,68727,86577 3,91574,74639	4 34531,39797 346,73910	4 45889,60048 337,89978	9,98879,38193,8182 1,74507,4179	10,63802,11628 34,66884	2:24
3	97448,77153,11938 3,91871,59233	4 34184,65887 346,21398	4 45551,70070 337,37449	9,98877,63686,4003 1,74646,7292	10,63767,44744 34,64397	1:48
2	97444,85281,52705 3,92168,42632	4 33838,44489 345,69008	4 45214,32621 336,85041	9,98875,89039,6711 1,74786,0518	10,63732,80347 34,61914	1:12
1	97440,93113,10073 3,92465,24838	4 33492,75481 345,16738	4 44877,47580 336,32754	9,98874,14253,6193 1,74925,3854	10,63698,18433 34,59435	0:36
0	97437,00647,85235 3,92762,05846	4 33147,58743 344,64590	4 44541,14826 335,80588	9,98872,39328,2339 1,75064,7303	10,63663,58998 34,56960	0: 0

GRAD. 77.

13. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	22495,10543,43865 17,00562,30570	23086,81911 18,38430	1 02630,41078 4,13713	9,35208,80330,4126 32,81895,2968	9,36336,41002 34,56960	0: 0
1	22512,11105,74435 17,00493,72989	23105,20341 18,38578	1 02634,54791 4,14059	9,35241,62225,7094 32,79284,8989	9,36370,97962 34,54489	0:36
2	22529,11599,47424 17,00425,10227	23123,58919 18,38726	1 02638,68850 4,14405	9,35274,41510,6083 32,76678,4400	9,36405,52451 34,52022	1:12
3	22546,12024,57651 17,00356,42287	23141,97645 18,38875	1 02642,83255 4,14751	9,35307,18189,0483 32,74075,9113	9,36440,04473 34,49559	1:48
4	22563,12380,99938 17,00287,69166	23160,36520 18,39023	1 02646,98006 4,15098	9,35339,92264,9596 32,71477,3036	9,36474,54032 34,47099	2:24
5	22580,12668,69104 17,00218,90866	23178,75543 18,39173	1 02651,13104 4,15444	9,35372,63742,2632 32,68882,6079	9,36509,01131 34,44645	3: 0
6	22597,12887,59970 17,00150,07387	23197,14716 18,39321	1 02655,28548 4,15790	9,35405,32624,8711 32,66291,8154	9,36543,45776 34,42192	3:36
7	22614,13037,67357 17,00081,18729	23215,54037 18,39470	1 02659,44338 4,16136	9,35437,98916,6865 32,63704,9168	9,36577,87968 34,39746	4:12
8	22631,13118,86086 17,00012,24892	23233,93507 18,39620	1 02663,60474 4,16483	9,35470,62621,6033 32,61121,9035	9,36612,27714 34,37302	4:48
9	22648,13131,10978 16,99943,25877	23252,33127 18,39769	1 02667,76957 4,16830	9,35503,23743,5068 32,58542,7665	9,36646,65016 34,34862	5:24
10	22665,13074,36855 16,99874,21683	23270,72896 18,39918	1 02671,93787 4,17176	9,35535,82286,2733 32,55967,4968	9,36680,99878 34,32426	6: 0
11	22682,12948,58538 16,99805,12312	23289,12814 18,40068	1 02676,10963 4,17523	9,35568,38253,7701 32,53396,0856	9,36715,32304 34,29994	6:36
12	22699,12753,70850 16,99735,97762	23307,52882 18,40217	1 02680,28486 4,17870	9,35600,91649,8557 32,50828,5243	9,36749,62298 34,27567	7:12
13	22716,12489,68612 16,99666,78034	23325,93099 18,40368	1 02684,46356 4,18217	9,35633,42478,3800 32,48264,8037	9,36783,89865 34,25142	7:48
14	22733,12156,46646 16,99597,53130	23344,33467 18,40517	1 02688,64573 4,18563	9,35665,90743,1837 32,45704,9154	9,36818,15007 34,22721	8:24
15	22750,11753,99776 16,99528,23048	23362,73984 18,40667	1 02692,83136 4,18910	9,35698,36448,0991 32,43148,8505	9,36852,37728 34,20305	9: 0
16	22767,11282,22824 16,99458,87788	23381,14651 18,40818	1 02697,02046 4,19258	9,35730,79596,9496 32,40596,6003	9,36886,58033 34,17893	9:36
17	22784,10741,10612 16,99389,47353	23399,55469 18,40968	1 02701,21304 4,19605	9,35763,20193,5499 32,38048,1561	9,36920,75926 34,15483	10:12
18	22801,10130,57965 16,99320,01740	23417,96437 18,41119	1 02705,40909 4,19951	9,35795,58241,7060 32,35503,5092	9,36954,91409 34,13079	10:48
19	22818,09450,59705 16,99250,50951	23436,37556 18,41269	1 02709,60860 4,20299	9,35827,93745,2152 32,32962,6510	9,36989,04488 34,10677	11:24
20	22835,08701,10656 16,99180,94985	23454,78825 18,41420	1 02713,81159 4,20647	9,35860,26707,8662 32,30425,5730	9,37023,15165 34,08279	12: 0
21	22852,07882,05641 16,99111,33845	23473,20245 18,41571	1 02718,01806 4,20993	9,35892,57133,4392 32,27892,2665	9,37057,23444 34,05886	12:36
22	22869,06993,39486 16,99041,67527	23491,61816 18,41722	1 02722,22799 4,21341	9,35924,85025,7057 32,25362,7229	9,37091,29330 34,03496	13:12
23	22886,06035,07013 16,98971,96035	23510,03538 18,41873	1 02726,44140 4,21689	9,35957,10388,4286 32,22836,9338	9,37125,32826 34,01110	13:48
24	22903,05007,03048 16,98902,19366	23528,45411 18,42024	1 02730,65829 4,22036	9,35989,33225,3624 32,20314,8905	9,37159,33936 33,98727	14:24
25	22920,03909,22414 16,98832,37524	23546,87435 18,42176	1 02734,87865 4,22384	9,36021,53540,2529 32,17796,5848	9,37193,32663 33,96349	15: 0
26	22937,02741,59938 16,98762,50505	23565,29611 18,42327	1 02739,10249 4,22732	9,36053,71336,8377 32,15282,0081	9,37227,29012 33,93973	15:36
27	22954,01504,10443 16,98692,58313	23583,71938 18,42479	1 02743,32981 4,23079	9,36085,86618,8458 32,12771,1518	9,37261,22985 33,91603	16:12
28	22971,00196,68756 16,98622,60945	23602,14417 18,42630	1 02747,56060 4,23427	9,36117,99389,9976 32,10264,0077	9,37295,14588 33,89235	16:48
29	22987,98819,29701 16,98552,58403	23620,57047 18,42783	1 02751,79487 4,23775	9,36150,09654,0053 32,07760,5675	9,37329,03823 33,86871	17:24
30	23004,97371,88104 16,98482,50688	23638,99830 18,42935	1 02756,03262 4,24124	9,36182,17414,5728 32,05260,8226	9,37362,90694 33,84511	18: 0
31	23021,95854,38792 16,98412,37799	23657,42765 18,43087	1 02760,27386 4,24471	9,36214,22675,3954 32,02764,7648	9,37396,75205 33,82155	18:36
32	23038,94266,76591 16,98342,19735	23675,85852 18,43239	1 02764,51857 4,24819	9,36246,25440,1602 32,00272,3858	9,37430,57360 33,79802	19:12
33	23055,92608,96326 16,98271,96498	23694,29091 18,43391	1 02768,76676 4,25168	9,36278,25712,5460 31,97783,6774	9,37464,37162 33,77453	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	97437,00647,85235 3,92762,05846	4 33147,58743 344,64590	4 44541,14826 335,80588	9,98872,39328,2339 1,75064,7303	10,63663,58998 34,56960	60: 0
99	97433,07885,79389 3,93058,85660	4 32802,94153 344,12560	4 44205,34238 335,28541	9,98870,64263,5036 1,75204,0865	10,63629,02038 34,54489	59:24
98	97429,14826,93729 3,93355,64276	4 32458,81593 343,60652	4 43870,05697 334,76615	9,98868,89059,4171 1,75343,4540	10,63594,47549 34,52022	58:48
97	97425,21471,29453 3,93652,41692	4 32115,20941 343,08863	4 43535,29082 334,24808	9,98867,13715,9631 1,75482,8326	10,63559,95527 34,49559	58:12
96	97421,27818,87761 3,93949,17912	4 31772,12078 342,57192	4 43201,04274 333,73120	9,98865,38233,1305 1,75622,2225	10,63525,45968 34,47099	57:36
95	97417,33869,69849 3,94245,92929	4 31429,54886 342,05641	4 42867,31154 333,21551	9,98863,62610,9080 1,75761,6237	10,63490,98869 34,44645	57: 0
94	97413,39623,76920 3,94542,66747	4 31087,49245 341,54207	4 42534,09603 332,70100	9,98861,86849,2843 1,75901,0363	10,63456,54224 34,42192	56:24
93	97409,45081,10173 3,94839,39362	4 30745,95038 341,02892	4 42201,39503 332,18767	9,98860,10948,2480 1,76040,4600	10,63422,12032 34,39746	55:48
92	97405,50241,70811 3,95136,10775	4 30404,92146 340,51695	4 41869,20736 331,67552	9,98858,34907,7880 1,76179,8951	10,63387,72286 34,37302	55:12
91	97401,55105,60036 3,95432,80984	4 30064,40451 340,00614	4 41537,53184 331,16453	9,98856,58727,8929 1,76319,3415	10,63353,34984 34,34862	54:36
90	97397,59672,79052 3,95729,49989	4 29724,39837 339,49651	4 41206,36731 330,65473	9,98854,82408,5514 1,76458,7992	10,63319,00122 34,32426	54: 0
89	97393,63943,29063 3,96026,17788	4 29384,90186 338,98804	4 40875,71258 330,14607	9,98853,05949,7522 1,76598,2682	10,63284,67696 34,29994	53:24
88	97389,67917,11275 3,96322,84380	4 29045,91382 338,48073	4 40545,56651 329,63860	9,98851,29351,4840 1,76737,7487	10,63250,37702 34,27567	52:48
87	97385,71594,26895 3,96619,49766	4 28707,43309 337,97459	4 40215,92791 329,13227	9,98849,52613,7353 1,76877,2404	10,63216,10135 34,25142	52:12
86	97381,74974,77129 3,96916,13943	4 28369,45850 337,46959	4 39886,79564 328,62710	9,98847,75736,4949 1,77016,7436	10,63181,84993 34,22721	51:36
85	97377,78058,63186 3,97212,76912	4 28031,98891 336,96575	4 39558,16854 328,12308	9,98845,98719,7513 1,77156,2580	10,63147,62272 34,20305	51: 0
84	97373,80845,86274 3,97509,38669	4 27695,02316 336,46305	4 39230,04546 327,62020	9,98844,21563,4933 1,77295,7839	10,63113,41967 34,17893	50:24
83	97369,83336,47605 3,97805,99217	4 27358,56011 335,96151	4 38902,42526 327,11848	9,98842,44267,7094 1,77435,3211	10,63079,24074 34,15483	49:48
82	97365,85530,48388 3,98102,58552	4 27022,59860 335,46110	4 38575,30678 326,61790	9,98840,66832,3883 1,77574,8698	10,63045,08591 34,13079	49:12
81	97361,87427,89836 3,98399,16676	4 26687,13750 334,96183	4 38248,68888 326,11844	9,98838,89257,5185 1,77714,4299	10,63010,95512 34,10677	48:36
80	97357,89028,73160 3,98695,73584	4 26352,17567 334,46370	4 37922,57044 325,62014	9,98837,11543,0886 1,77854,0014	10,62976,84835 34,08279	48: 0
79	97353,90332,99576 3,98992,29280	4 26017,71197 333,96668	4 37596,95030 325,12294	9,98835,33689,0872 1,77993,5843	10,62942,76556 34,05886	47:24
78	97349,91340,70296 3,99288,83758	4 25683,74529 333,47081	4 37271,82736 324,62689	9,98833,55695,5029 1,78133,1787	10,62908,70670 34,03496	46:48
77	97345,92051,86538 3,99585,37022	4 25350,27448 332,97606	4 36947,20047 324,13196	9,98831,77562,3242 1,78272,7845	10,62874,67174 34,01110	46:12
76	97341,92466,49516 3,99881,89068	4 25017,29842 332,48242	4 36623,06851 323,63814	9,98829,99289,5397 1,78412,4018	10,62840,66064 33,98727	45:36
75	97337,92584,60448 4,00178,39895	4 24684,81600 331,98990	4 36299,43037 323,14545	9,98828,20877,1379 1,78552,0306	10,62806,67337 33,96349	45: 0
74	97333,92406,20553 4,00474,89504	4 24352,82610 331,49851	4 35976,28492 322,65386	9,98826,42325,1073 1,78691,6708	10,62772,70988 33,93973	44:24
73	97329,91931,31049 4,00771,37893	4 24021,32759 331,00821	4 35653,63106 322,16339	9,98824,63633,4365 1,78831,3225	10,62738,77015 33,91603	43:48
72	97325,91159,93156 4,01067,85061	4 23690,31938 330,51902	4 35331,46767 321,67403	9,98822,84802,1140 1,78970,9858	10,62704,85412 33,89235	43:12
71	97321,90092,08095 4,01364,31007	4 23359,80036 330,03094	4 35009,79364 321,18577	9,98821,05831,1282 1,79110,6605	10,62670,96177 33,86871	42:36
70	97317,88727,77088 4,01660,75731	4 23029,76942 329,54396	4 34688,60787 320,69860	9,98819,26720,4677 1,79250,3467	10,62637,09306 33,84511	42: 0
69	97313,87067,01357 4,01957,19230	4 22700,22546 329,05808	4 34367,90927 320,21254	9,98817,47470,1210 1,79390,0446	10,62603,24795 33,82155	41:24
68	97309,85109,82127 4,02253,61507	4 22371,16738 328,57328	4 34047,69673 319,72757	9,98815,68080,0764 1,79529,7539	10,62569,42640 33,79802	40:48
67	97305,82856,20620 4,02550,02557	4 22042,59410 328,08959	4 33727,96916 319,24369	9,98813,88550,3225 1,79669,4748	10,62535,62838 33,77453	40:12

GRAD. 76.

13. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	23055,92608,96326	23694,29091	1 02768,76676	9,36278,25712,5460	9,37464,37162	19:48
	16,98271,96498	18,43391	4,25168	31,97783,6774	33,77453	
34	23072,90880,92824	23712,72482	1 02773,01844	9,36310,23496,2234	9,37498,14615	20:24
	16,98201,68088	18,43545	4,25516	31,95298,6312	33,75108	
35	23089,89082,60912	23731,16027	1 02777,27360	9,36342,18794,8546	9,37531,89723	21: 0
	16,98131,34506	18,43697	4,25864	31,92817,2391	33,72766	
36	23106,87213,95418	23749,59724	1 02781,53224	9,36374,11612,0937	9,37565,62489	21:36
	16,98060,95750	18,43850	4,26212	31,90339,4927	33,70429	
37	23123,85274,91168	23768,03574	1 02785,79436	9,36406,01951,5864	9,37599,32918	22:12
	16,97990,51821	18,44002	4,26561	31,87865,3840	33,68093	
38	23140,83265,42989	23786,47576	1 02790,05997	9,36437,89816,9704	9,37633,01011	22:48
	16,97920,02721	18,44156	4,26910	31,85394,9048	33,65764	
39	23157,81185,45710	23804,91732	1 02794,32907	9,36469,75211,8752	9,37666,66775	23:24
	16,97849,48447	18,44309	4,27258	31,82928,0469	33,63436	
40	23174,79034,94157	23823,36041	1 02798,60165	9,36501,58139,9221	9,37700,30211	24: 0
	16,97778,89003	18,44463	4,27607	31,80464,8024	33,61112	
41	23191,76813,83160	23841,80504	1 02802,87772	9,36533,38604,7245	9,37733,91323	24:36
	16,97708,24387	18,44616	4,27956	31,78005,1629	33,58793	
42	23208,74522,07547	23860,25120	1 02807,15728	9,36565,16609,8874	9,37767,50116	25:12
	16,97637,54598	18,44770	4,28304	31,75549,1207	33,56477	
43	23225,72159,62145	23878,69890	1 02811,44032	9,36596,92159,0081	9,37801,06593	25:48
	16,97566,79639	18,44923	4,28654	31,73096,6674	33,54164	
44	23242,69726,41784	23897,14813	1 02815,72686	9,36628,65255,6755	9,37834,60757	26:24
	16,97495,99508	18,45078	4,29002	31,70647,7952	33,51855	
45	23259,67222,41292	23915,59891	1 02820,01688	9,36660,35903,4707	9,37868,12612	27: 0
	16,97425,14208	18,45231	4,29351	31,68202,4962	33,49549	
46	23276,64647,55500	23934,05122	1 02824,31039	9,36692,04105,9669	9,37901,62161	27:36
	16,97354,23735	18,45386	4,29701	31,65760,7623	33,47248	
47	23293,62001,79235	23952,50508	1 02828,60740	9,36723,69866,7292	9,37935,09409	28:12
	16,97283,28093	18,45540	4,30049	31,63322,5854	33,44949	
48	23310,59285,07328	23970,96048	1 02832,90789	9,36755,33189,3146	9,37968,54358	28:48
	16,97212,27280	18,45694	4,30399	31,60887,9579	33,42655	
49	23327,56497,34608	23989,41742	1 02837,21188	9,36786,94077,2725	9,38001,97013	29:24
	16,97141,21297	18,45849	4,30749	31,58456,8718	33,40363	
50	23344,53638,55905	24007,87591	1 02841,51937	9,36818,52534,1443	9,38035,37376	30: 0
	16,97070,10146	18,46003	4,31097	31,56029,3192	33,38076	
51	23361,50708,66051	24026,33594	1 02845,83034	9,36850,08563,4635	9,38068,75452	30:36
	16,96998,93823	18,46159	4,31447	31,53605,2921	33,35792	
52	23378,47707,59874	24044,79753	1 02850,14481	9,36881,62168,7556	9,38102,11244	31:12
	16,96927,72331	18,46313	4,31797	31,51184,7831	33,33511	
53	23395,44635,32205	24063,26066	1 02854,46278	9,36913,13353,5387	9,38135,44755	31:48
	16,96856,45672	18,46469	4,32146	31,48767,7838	33,31234	
54	23412,41491,77877	24081,72535	1 02858,78424	9,36944,62121,3225	9,38168,75989	32:24
	16,96785,13842	18,46623	4,32496	31,46354,2871	33,28961	
55	23429,38276,91719	24100,19158	1 02863,10920	9,36976,08475,6096	9,38202,04950	33: 0
	16,96713,76843	18,46779	4,32846	31,43944,2846	33,26690	
56	23446,34990,68562	24118,65937	1 02867,43766	9,37007,52419,8942	9,38235,31640	33:36
	16,96642,34678	18,46935	4,33195	31,41537,7691	33,24424	
57	23463,31633,03240	24137,12872	1 02871,76961	9,37038,93957,6633	9,38268,56064	34:12
	16,96570,87342	18,47090	4,33545	31,39134,7326	33,22161	
58	23480,28203,90582	24155,59962	1 02876,10506	9,37070,33092,3959	9,38301,78225	34:48
	16,96499,34839	18,47246	4,33896	31,36735,1674	33,19902	
59	23497,24703,25421	24174,07208	1 02880,44402	9,37101,69827,5633	9,38334,98127	35:24
	16,96427,77169	18,47402	4,34245	31,34339,0660	33,17645	
60	23514,21131,02590	24192,54610	1 02884,78647	9,37133,04166,6293	9,38368,15772	36: 0
	16,96356,14330	18,47557	4,34595	31,31946,4207	33,15393	
61	23531,17487,16920	24211,02167	1 02889,13242	9,37164,36113,0500	9,38401,31165	36:36
	16,96284,46325	18,47714	4,34946	31,29557,2238	33,13144	
62	23548,13771,63245	24229,49881	1 02893,48188	9,37195,65670,2738	9,38434,44309	37:12
	16,96212,73152	18,47871	4,35295	31,27171,4678	33,10898	
63	23565,09984,36397	24247,97752	1 02897,83483	9,37226,92841,7416	9,38467,55207	37:48
	16,96140,94811	18,48026	4,35646	31,24789,1450	33,08655	
64	23582,06125,31208	24266,45778	1 02902,19129	9,37258,17630,8866	9,38500,63862	38:24
	16,96069,11305	18,48183	4,35997	31,22410,2481	33,06417	
65	23599,02194,42513	24284,93961	1 02906,55126	9,37289,40041,1347	9,38533,70279	39: 0
	16,95997,22632	18,48340	4,36347	31,20034,7693	33,04182	
66	23615,98191,65145	24303,42301	1 02910,91473	9,37320,60075,9040	9,38566,74461	39:36
	16,95925,28793	18,48497	4,36697	31,17662,7013	33,01949	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	97305,82856,20620 4,02550,02557	4 22042,59410 328,08959	4 33727,96916 319,24369	9,98813,88550,3225 1,79669,4748	10,62535,62838 33,77453	40:12
66	97301,80306,18063 4,02846,42381	4 21714,50451 327,60697	4 33408,72547 318,76089	9,98812,08880,8477 1,79809,2072	10,62501,85385 33,75108	39:36
65	97297,77459,75682 4,03142,80978	4 21386,89754 327,12544	4 33089,96458 318,27919	9,98810,29071,6405 1,79948,9513	10,62468,10277 33,72766	39: 0
64	97293,74316,94704 4,03439,18347	4 21059,77210 326,64500	4 32771,68539 317,79855	9,98808,49122,6892 1,80088,7068	10,62434,37511 33,70429	38:24
63	97289,70877,76357 4,03735,54487	4 20733,12710 326,16562	4 32453,88684 317,31901	9,98806,69033,9824 1,80228,4741	10,62400,67082 33,68093	37:48
62	97285,67142,21870 4,04031,89397	4 20406,96148 325,68733	4 32136,56783 316,84053	9,98804,88805,5083 1,80368,2528	10,62366,98989 33,65764	37:12
61	97281,63110,32473 4,04328,23076	4 20081,27415 325,21011	4 31819,72730 316,36312	9,98803,08437,2555 1,80508,0433	10,62333,33225 33,63436	36:36
60	97277,58782,09397 4,04624,55525	4 19756,06404 324,73394	4 31503,36418 315,88678	9,98801,27929,2122 1,80647,8453	10,62299,69789 33,61112	36: 0
59	97273,54157,53872 4,04920,86739	4 19431,33010 324,25886	4 31187,47740 315,41151	9,98799,47281,3669 1,80787,6589	10,62266,08677 33,58793	35:24
58	97269,49236,67133 4,05217,16721	4 19107,07124 323,78482	4 30872,06589 314,93730	9,98797,66493,7080 1,80927,4842	10,62232,49884 33,56477	34:48
57	97265,44019,50412 4,05513,45468	4 18783,28642 323,31185	4 30557,12859 314,46414	9,98795,85566,2238 1,81067,3212	10,62198,93407 33,54164	34:12
56	97261,38506,04944 4,05809,72981	4 18459,97457 322,83994	4 30242,66445 313,99204	9,98794,04498,9026 1,81207,1698	10,62165,39243 33,51855	33:36
55	97257,32696,31963 4,06105,99256	4 18137,13463 322,36906	4 29928,67241 313,52100	9,98792,23291,7328 1,81347,0301	10,62131,87388 33,49549	33: 0
54	97253,26590,32707 4,06402,24296	4 17814,76557 321,89926	4 29615,15141 313,05099	9,98790,41944,7027 1,81486,9020	10,62098,37839 33,47248	32:24
53	97249,20188,08411 4,06698,48096	4 17492,86631 321,43048	4 29302,10042 312,58205	9,98788,60457,8007 1,81626,7857	10,62064,90591 33,44949	31:48
52	97245,13489,60315 4,06994,70658	4 17171,43583 320,96275	4 28989,51837 312,11413	9,98786,78831,0150 1,81766,6810	10,62031,45642 33,42655	31:12
51	97241,06494,89657 4,07290,91980	4 16850,47308 320,49607	4 28677,40424 311,64727	9,98784,97064,3340 1,81906,5881	10,61998,02987 33,40363	30:36
50	97236,99203,97677 4,07587,12062	4 16529,97701 320,03042	4 28365,75697 311,18143	9,98783,15157,7459 1,82046,5069	10,61964,62624 33,38076	30: 0
49	97232,91616,85615 4,07883,30902	4 16209,94659 319,56579	4 28054,57554 310,71663	9,98781,33111,2390 1,82186,4374	10,61931,24548 33,35792	29:24
48	97228,83733,54713 4,08179,48500	4 15890,38080 319,10222	4 27743,85891 310,25286	9,98779,50924,8016 1,82326,3796	10,61897,88756 33,33511	28:48
47	97224,75554,06213 4,08475,64853	4 15571,27858 318,63965	4 27433,60605 309,79011	9,98777,68598,4220 1,82466,3336	10,61864,55245 33,31234	28:12
46	97220,67078,41360 4,08771,79963	4 15252,63893 318,17811	4 27123,81594 309,32840	9,98775,86132,0884 1,82606,2994	10,61831,24011 33,28961	27:36
45	97216,58306,61397 4,09067,93828	4 14934,46082 317,71760	4 26814,48754 308,86770	9,98774,03525,7890 1,82746,2770	10,61797,95050 33,26690	27: 0
44	97212,49238,67569 4,09364,06447	4 14616,74322 317,25811	4 26505,61984 308,40802	9,98772,20779,5120 1,82886,2663	10,61764,68360 33,24424	26:24
43	97208,39874,61122 4,09660,17818	4 14299,48511 316,79963	4 26197,21182 307,94936	9,98770,37893,2457 1,83026,2673	10,61731,43936 33,22161	25:48
42	97204,30214,43304 4,09956,27941	4 13982,68548 316,34216	4 25889,26246 307,49170	9,98768,54866,9784 1,83166,2803	10,61698,21775 33,19902	25:12
41	97200,20258,15363 4,10252,36817	4 13666,34332 315,88570	4 25581,77076 307,03507	9,98766,71700,6981 1,83306,3050	10,61665,01873 33,17645	24:36
40	97196,10005,78546 4,10548,44441	4 13350,45762 315,43024	4 25274,73569 306,57942	9,98764,88394,3931 1,83446,3415	10,61631,84228 33,15393	24: 0
39	97191,99457,34105 4,10844,50816	4 13035,02738 314,97580	4 24968,15627 306,12480	9,98763,04948,0516 1,83586,3899	10,61598,68835 33,13144	23:24
38	97187,88612,83289 4,11140,55940	4 12720,05158 314,52235	4 24662,03147 305,67116	9,98761,21361,6617 1,83726,4502	10,61565,55691 33,10898	22:48
37	97183,77472,27349 4,11436,59809	4 12405,52923 314,06991	4 24356,36031 305,21853	9,98759,37635,2115 1,83866,5221	10,61532,44793 33,08655	22:12
36	97179,66035,67540 4,11732,62427	4 12091,45932 313,61844	4 24051,14178 304,76688	9,98757,53768,6894 1,84006,6061	10,61499,36138 33,06417	21:36
35	97175,54303,05113 4,12028,63791	4 11777,84088 313,16798	4 23746,37490 304,31624	9,98755,69762,0833 1,84146,7019	10,61466,29721 33,04182	21: 0
34	97171,42274,41322 4,12324,63898	4 11464,67290 312,71851	4 23442,05866 303,86658	9,98753,85615,3814 1,84286,8096	10,61433,25539 33,01949	20:24

GRAD. 76.

13. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	23632,94116,93938	24321,90798	1 02915,28170	9,37351,77738,6053	9,38599,76410	40:12
	16,95853,29787	18,48653	4,37048	31,15294,0364	32,99721	
68	23649,89970,23725	24340,39451	1 02919,65218	9,37382,93032,6417	9,38632,76131	40:48
	16,95781,25615	18,48811	4,37399	31,12928,7673	32,97496	
69	23666,85751,49340	24358,88262	1 02924,02617	9,37414,05961,4090	9,38665,73627	41:24
	16,95709,16279	18,48968	4,37749	31,10566,8866	32,95274	
70	23683,81460,65619	24377,37230	1 02928,40366	9,37445,16528,2956	9,38698,68901	42: 0
	16,95637,01776	18,49125	4,38100	31,08208,3867	32,93056	
71	23700,77097,67395	24395,86355	1 02932,78466	9,37476,24736,6823	9,38731,61957	42:36
	16,95564,82108	18,49283	4,38451	31,05853,2604	32,90840	
72	23717,72662,49503	24414,35638	1 02937,16917	9,37507,30589,9427	9,38764,52797	43:12
	16,95492,57276	18,49440	4,38802	31,03501,5001	32,88630	
73	23734,68155,06779	24432,85078	1 02941,55719	9,37538,34091,4428	9,38797,41427	43:48
	16,95420,27278	18,49598	4,39153	31,01153,0987	32,86421	
74	23751,63575,34057	24451,34676	1 02945,94872	9,37569,35244,5415	9,38830,27848	44:24
	16,95347,92116	18,49756	4,39504	30,98808,0487	32,84216	
75	23768,58923,26173	24469,84432	1 02950,34376	9,37600,34052,5902	9,38863,12064	45: 0
	16,95275,51790	18,49914	4,39856	30,96466,3427	32,82014	
76	23785,54198,77963	24488,34346	1 02954,74232	9,37631,30518,9329	9,38895,94078	45:36
	16,95203,06300	18,50072	4,40206	30,94127,9737	32,79817	
77	23802,49401,84263	24506,84418	1 02959,14438	9,37662,24646,9066	9,38928,73895	46:12
	16,95130,55645	18,50231	4,40558	30,91792,9343	32,77622	
78	23819,44532,39908	24525,34649	1 02963,54996	9,37693,16439,8409	9,38961,51517	46:48
	16,95057,99827	18,50388	4,40909	30,89461,2170	32,75430	
79	23836,39590,39735	24543,85037	1 02967,95905	9,37724,05901,0579	9,38994,26947	47:24
	16,94985,38846	18,50548	4,41261	30,87132,8150	32,73242	
80	23853,34575,78581	24562,35585	1 02972,37166	9,37754,93033,8729	9,39027,00189	48: 0
	16,94912,72701	18,50706	4,41612	30,84807,7208	32,71057	
81	23870,29488,51282	24580,86291	1 02976,78778	9,37785,77841,5937	9,39059,71246	48:36
	16,94840,01394	18,50864	4,41964	30,82485,9273	32,68876	
82	23887,24328,52676	24599,37155	1 02981,20742	9,37816,60327,5210	9,39092,40122	49:12
	16,94767,24923	18,51024	4,42315	30,80167,4273	32,66698	
83	23904,19095,77599	24617,88179	1 02985,63057	9,37847,40494,9483	9,39125,06820	49:48
	16,94694,43290	18,51183	4,42667	30,77852,2138	32,64522	
84	23921,13790,20889	24636,39362	1 02990,05724	9,37878,18347,1621	9,39157,71342	50:24
	16,94621,56495	18,51342	4,43019	30,75540,2795	32,62351	
85	23938,08411,77384	24654,90704	1 02994,48743	9,37908,93887,4416	9,39190,33693	51: 0
	16,94548,64538	18,51501	4,43371	30,73231,6173	32,60183	
86	23955,02960,41922	24673,42205	1 02998,92114	9,37939,67119,0589	9,39222,93876	51:36
	16,94475,67418	18,51661	4,43723	30,70926,2203	32,58018	
87	23971,97436,09340	24691,93866	1 03003,35837	9,37970,38045,2792	9,39255,51894	52:12
	16,94402,65137	18,51820	4,44074	30,68624,0812	32,55856	
88	23988,91838,74477	24710,45686	1 03007,79911	9,38001,06669,3604	9,39288,07750	52:48
	16,94329,57695	18,51980	4,44427	30,66325,1932	32,53697	
89	24005,86168,32172	24728,97666	1 03012,24338	9,38031,72994,5536	9,39320,61447	53:24
	16,94256,45092	18,52140	4,44779	30,64029,5491	32,51542	
90	24022,80424,77264	24747,49806	1 03016,69117	9,38062,37024,1027	9,39353,12989	54: 0
	16,94183,27326	18,52300	4,45132	30,61737,1420	32,49390	
91	24039,74608,04590	24766,02106	1 03021,14249	9,38092,98761,2447	9,39385,62379	54:36
	16,94110,04402	18,52460	4,45483	30,59447,9648	32,47242	
92	24056,68718,08992	24784,54566	1 03025,59732	9,38123,58209,2095	9,39418,09621	55:12
	16,94036,76315	18,52621	4,45836	30,57162,0106	32,45096	
93	24073,62754,85307	24803,07187	1 03030,05568	9,38154,15371,2201	9,39450,54717	55:48
	16,93963,43069	18,52781	4,46189	30,54879,2726	32,42953	
94	24090,56718,28376	24821,59968	1 03034,51757	9,38184,70250,4927	9,39482,97670	56:24
	16,93890,04663	18,52941	4,46541	30,52599,7437	32,40815	
95	24107,50608,33039	24840,12909	1 03038,98298	9,38215,22850,2364	9,39515,38485	57: 0
	16,93816,61096	18,53102	4,46893	30,50323,4170	32,38678	
96	24124,44424,94135	24858,66011	1 03043,45191	9,38245,73173,6534	9,39547,77163	57:36
	16,93743,12370	18,53263	4,47247	30,48050,2857	32,36546	
97	24141,38168,06505	24877,19274	1 03047,92438	9,38276,21223,9391	9,39580,13709	58:12
	16,93669,58485	18,53424	4,47599	30,45780,3429	32,34417	
98	24158,31837,64990	24895,72698	1 03052,40037	9,38306,67004,2820	9,39612,48126	58:48
	16,93595,99441	18,53584	4,47952	30,43513,5818	32,32290	
99	24175,25433,64431	24914,26282	1 03056,87989	9,38337,10517,8638	9,39644,80416	59:24
	16,93522,35237	18,53746	4,48304	30,41249,9956	32,30167	
100	24192,18955,99668	24932,80028	1 03061,36293	9,38367,51767,8594	9,39677,10583	60: 0
	16,93448,65874	18,53908	4,48658	30,38989,5773	32,28047	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	97167,29949,77424	4 11151,95439	4 23138,19208	9,98752,01328,5718	10,61400,23590	19:48
	4,12620,62750	312,27002	303,41790	1,84426,9291	32,99721	
32	97163,17329,14674	4 10839,68437	4 22834,77418	9,98750,16901,6427	10,61367,23869	19:12
	4,12916,60345	311,82251	302,97021	1,84567,0606	32,97496	
31	97159,04412,54329	4 10527,86186	4 22531,80397	9,98748,32334,5821	10,61334,26373	18:36
	4,13212,56683	311,37599	302,52350	1,84707,2040	32,95274	
30	97154,91199,97646	4 10216,48587	4 22229,28047	9,98746,47627,3781	10,61301,31099	18: 0
	4,13508,51761	310,93043	302,07777	1,84847,3593	32,93056	
29	97150,77691,45885	4 09905,55544	4 21927,20270	9,98744,62780,0188	10,61268,38043	17:24
	4,13804,45580	310,48587	301,63301	1,84987,5265	32,90840	
28	97146,63887,00305	4 09595,06957	4 21625,56969	9,98742,77792,4923	10,61235,47203	16:48
	4,14100,38138	310,04226	301,18922	1,85127,7057	32,88630	
27	97142,49786,62167	4 09285,02731	4 21324,38047	9,98740,92664,7866	10,61202,58573	16:12
	4,14396,29436	309,59963	300,74640	1,85267,8968	32,86421	
26	97138,35390,32731	4 08975,42768	4 21023,63407	9,98739,07396,8898	10,61169,72152	15:36
	4,14692,19470	309,15796	300,30455	1,85408,0999	32,84216	
25	97134,20698,13261	4 08666,26972	4 20723,32952	9,98737,21988,7899	10,61136,87936	15: 0
	4,14988,08241	308,71726	299,86365	1,85548,3149	32,82014	
24	97130,05710,05020	4 08357,55246	4 20423,46587	9,98735,36440,4750	10,61104,05922	14:24
	4,15283,95749	308,27752	299,42373	1,85688,5420	32,79817	
23	97125,90426,09271	4 08049,27494	4 20124,04214	9,98733,50751,9330	10,61071,26105	13:48
	4,15579,81991	307,83872	298,98476	1,85828,7810	32,77622	
22	97121,74846,27280	4 07741,43622	4 19825,05738	9,98731,64923,1520	10,61038,48483	13:12
	4,15875,66967	307,40090	298,54673	1,85969,0321	32,75430	
21	97117,58970,60313	4 07434,03532	4 19526,51065	9,98729,78954,1199	10,61005,73053	12:36
	4,16171,50677	306,96402	298,10967	1,86109,2951	32,73242	
20	97113,42799,09636	4 07127,07130	4 19228,40098	9,98727,92844,8248	10,60972,99811	12: 0
	4,16467,33119	306,52809	297,67356	1,86249,5701	32,71057	
19	97109,26331,76517	4 06820,54321	4 18930,72742	9,98726,06595,2547	10,60940,28754	11:24
	4,16763,14291	306,09311	297,23838	1,86389,8573	32,68876	
18	97105,09568,62226	4 06514,45010	4 18633,48904	9,98724,20205,3974	10,60907,59878	10:48
	4,17058,94196	305,65906	296,80416	1,86530,1564	32,66698	
17	97100,92509,68030	4 06208,79104	4 18336,68488	9,98722,33675,2410	10,60874,93180	10:12
	4,17354,72828	305,22597	296,37087	1,86670,4676	32,64522	
16	97096,75154,95202	4 05903,56507	4 18040,31401	9,98720,47004,7734	10,60842,28658	9:36
	4,17650,50191	304,79381	295,93853	1,86810,7908	32,62351	
15	97092,57504,45011	4 05598,77126	4 17744,37548	9,98718,60193,9826	10,60809,66307	9: 0
	4,17946,26280	304,36259	295,50711	1,86951,1262	32,60183	
14	97088,39558,18731	4 05294,40867	4 17448,86837	9,98716,73242,8564	10,60777,06124	8:24
	4,18242,01097	303,93229	295,07664	1,87091,4736	32,58018	
13	97084,21316,17634	4 04990,47638	4 17153,79173	9,98714,86151,3828	10,60744,48106	7:48
	4,18537,74639	303,50294	294,64708	1,87231,8330	32,55856	
12	97080,02778,42995	4 04686,97344	4 16859,14465	9,98712,98919,5498	10,60711,92250	7:12
	4,18833,46906	303,07450	294,21847	1,87372,2047	32,53697	
11	97075,83944,96089	4 04383,89894	4 16564,92618	9,98711,11547,3451	10,60679,38553	6:36
	4,19129,17898	302,64699	293,79077	1,87512,5884	32,51542	
10	97071,64815,78191	4 04081,25195	4 16271,13541	9,98709,24034,7567	10,60646,87011	6: 0
	4,19424,87613	302,22041	293,36399	1,87652,9843	32,49390	
9	97067,45390,90578	4 03779,03154	4 15977,77142	9,98707,36381,7724	10,60614,37621	5:24
	4,19720,56051	301,79474	292,93814	1,87793,3922	32,47242	
8	97063,25670,34527	4 03477,23680	4 15684,83328	9,98705,48588,3802	10,60581,90379	4:48
	4,20016,23209	301,36999	292,51321	1,87933,8123	32,45096	
7	97059,05654,11318	4 03175,86681	4 15392,32007	9,98703,60654,5679	10,60549,45283	4:12
	4,20311,89088	300,94616	292,08917	1,88074,2446	32,42953	
6	97054,85342,22230	4 02874,92065	4 15100,23090	9,98701,72580,3233	10,60517,02330	3:36
	4,20607,53688	300,52323	291,66607	1,88214,6891	32,40815	
5	97050,64734,68542	4 02574,39742	4 14808,56483	9,98699,84365,6342	10,60484,61515	3: 0
	4,20903,17005	300,10123	291,24387	1,88355,1456	32,38678	
4	97046,43831,51537	4 02274,29619	4 14517,32096	9,98697,96010,4886	10,60452,22837	2:24
	4,21198,79040	299,68011	290,82256	1,88495,6144	32,36546	
3	97042,22632,72497	4 01974,61608	4 14226,49840	9,98696,07514,8742	10,60419,86291	1:48
	4,21494,39793	299,25991	290,40218	1,88636,0955	32,34417	
2	97038,01138,32704	4 01675,35617	4 13936,09622	9,98694,18878,7787	10,60387,51874	1:12
	4,21789,99262	298,84061	289,98268	1,88776,5886	32,32290	
1	97033,79348,33442	4 01376,51556	4 13646,11354	9,98692,30102,1901	10,60355,19584	0:36
	4,22085,57446	298,42221	289,56410	1,88917,0940	32,30167	
0	97029,57262,75996	4 01078,09335	4 13356,54944	9,98690,41185,0961	10,60322,89417	0: 0
	4,22381,14343	298,00470	289,14639	1,89057,6116	32,28047	

GRAD. 76.

14. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	24192,18955,99668 16,93448,65874	24932,80028 18,53908	1 03061,36293 4,48658	9,38367,51767,8594 30,38989,5773	9,39677,10583 32,28047	0: 0
1	24209,12404,65542 16,93374,91354	24951,33936 18,54069	1 03065,84951 4,49011	9,38397,90757,4367 30,36732,3203	9,39709,38630 32,25930	0:36
2	24226,05779,56896 16,93301,11674	24969,88005 18,54230	1 03070,33962 4,49364	9,38428,27489,7570 30,34478,2178	9,39741,64560 32,23817	1:12
3	24242,99080,68570 16,93227,26837	24988,42235 18,54392	1 03074,83326 4,49717	9,38458,61967,9748 30,32227,2632	9,39773,88377 32,21707	1:48
4	24259,92307,95407 16,93153,36842	25006,96627 18,54554	1 03079,33043 4,50071	9,38488,94195,2380 30,29979,4494	9,39806,10084 32,19599	2:24
5	24276,85461,32249 16,93079,41690	25025,51181 18,54717	1 03083,83114 4,50423	9,38519,24174,6874 30,27734,7700	9,39838,29683 32,17495	3: 0
6	24293,78540,73939 16,93005,41379	25044,05898 18,54878	1 03088,33537 4,50777	9,38549,51909,4574 30,25493,2182	9,39870,47178 32,15394	3:36
7	24310,71546,15318 16,92931,35911	25062,60776 18,55040	1 03092,84314 4,51131	9,38579,77402,6756 30,23254,7875	9,39902,62572 32,13297	4:12
8	24327,64477,51229 16,92857,25287	25081,15816 18,55203	1 03097,35445 4,51484	9,38610,00657,4631 30,21019,4709	9,39934,75869 32,11201	4:48
9	24344,57334,76516 16,92783,09507	25099,71019 18,55366	1 03101,86929 4,51838	9,38640,21676,9340 30,18787,2622	9,39966,87070 32,09111	5:24
10	24361,50117,86023 16,92708,88568	25118,26385 18,55528	1 03106,38767 4,52192	9,38670,40464,1962 30,16558,1544	9,39998,96181 32,07021	6: 0
11	24378,42826,74591 16,92634,62475	25136,81913 18,55691	1 03110,90959 4,52545	9,38700,57022,3506 30,14332,1411	9,40031,03202 32,04936	6:36
12	24395,35461,37066 16,92560,31224	25155,37604 18,55854	1 03115,43504 4,52899	9,38730,71354,4917 30,12109,2158	9,40063,08138 32,02854	7:12
13	24412,28021,68290 16,92485,94819	25173,93458 18,56017	1 03119,96403 4,53253	9,38760,83463,7075 30,09889,3717	9,40095,10992 32,00775	7:48
14	24429,20507,63109 16,92411,53258	25192,49475 18,56180	1 03124,49656 4,53608	9,38790,93353,0792 30,07672,6025	9,40127,11767 31,98699	8:24
15	24446,12919,16367 16,92337,06540	25211,05655 18,56344	1 03129,03264 4,53961	9,38821,01025,6817 30,05458,9016	9,40159,10466 31,96626	9: 0
16	24463,05256,22907 16,92262,54669	25229,61999 18,56507	1 03133,57225 4,54315	9,38851,06484,5833 30,03248,2625	9,40191,07092 31,94556	9:36
17	24479,97518,77576 16,92187,97642	25248,18506 18,56671	1 03138,11540 4,54670	9,38881,09732,8458 30,01040,6786	9,40223,01648 31,92489	10:12
18	24496,89706,75218 16,92113,35460	25266,75177 18,56834	1 03142,66210 4,55024	9,38911,10773,5244 29,98836,1436	9,40254,94137 31,90425	10:48
19	24513,81820,10678 16,92038,68125	25285,32011 18,56999	1 03147,21234 4,55378	9,38941,09609,6680 29,96634,6510	9,40286,84562 31,88364	11:24
20	24530,73858,78803 16,91963,95634	25303,89010 18,57162	1 03151,76612 4,55733	9,38971,06244,3190 29,94436,1944	9,40318,72926 31,86307	12: 0
21	24547,65822,74437 16,91889,17989	25322,46172 18,57327	1 03156,32345 4,56087	9,39001,00680,5134 29,92240,7673	9,40350,59233 31,84252	12:36
22	24564,57711,92426 16,91814,35192	25341,03499 18,57491	1 03160,88432 4,56442	9,39030,92921,2807 29,90048,3634	9,40382,43485 31,82200	13:12
23	24581,49526,27618 16,91739,47240	25359,60990 18,57655	1 03165,44874 4,56797	9,39060,82969,6441 29,87858,9762	9,40414,25685 31,80152	13:48
24	24598,41265,74858 16,91664,54135	25378,18645 18,57820	1 03170,01671 4,57151	9,39090,70828,6203 29,85672,5996	9,40446,05837 31,78107	14:24
25	24615,32930,28993 16,91589,55877	25396,76465 18,57984	1 03174,58822 4,57506	9,39120,56501,2199 29,83489,2271	9,40477,83944 31,76063	15: 0
26	24632,24519,84870 16,91514,52466	25415,34449 18,58150	1 03179,16328 4,57861	9,39150,39990,4470 29,81308,8522	9,40509,60007 31,74025	15:36
27	24649,16034,37336 16,91439,43902	25433,92599 18,58314	1 03183,74189 4,58216	9,39180,21299,2992 29,79131,4689	9,40541,34032 31,71987	16:12
28	24666,07473,81238 16,91364,30187	25452,50913 18,58480	1 03188,32405 4,58572	9,39210,00430,7681 29,76957,0708	9,40573,06019 31,69955	16:48
29	24682,98838,11425 16,91289,11318	25471,09393 18,58645	1 03192,90977 4,58926	9,39239,77387,8389 29,74785,6516	9,40604,75974 31,67923	17:24
30	24699,90127,22743 16,91213,87298	25489,68038 18,58810	1 03197,49903 4,59281	9,39269,52173,4905 29,72617,2051	9,40636,43897 31,65896	18: 0
31	24716,81341,10041 16,91138,58126	25508,26848 18,58975	1 03202,09184 4,59637	9,39299,24790,6956 29,70451,7250	9,40668,09793 31,63872	18:36
32	24733,72479,68167 16,91063,23803	25526,85823 18,59142	1 03206,68821 4,59992	9,39328,95242,4206 29,68289,2051	9,40699,73665 31,61850	19:12
33	24750,63542,91970 16,90987,84328	25545,44965 18,59307	1 03211,28813 4,60348	9,39358,63531,6257 29,66129,6394	9,40731,35515 31,59831	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	97029,57262,75996 4,22381,14343	4 01078,09335 298,00470	4 13356,54944 289,14639	9,98690,41185,0961 1,89057,6116	10,60322,89417 32,28047	60: 0
99	97025,34881,61653 4,22676,69955	4 00780,08865 297,58808	4 13067,40305 288,72959	9,98688,52127,4845 1,89198,1416	10,60290,61370 32,25930	59:24
98	97021,12204,91698 4,22972,24278	4 00482,50057 297,17237	4 12778,67346 288,31368	9,98686,62929,3429 1,89338,6836	10,60258,35440 32,23817	58:48
97	97016,89232,67420 4,23267,77314	4 00185,32820 296,75753	4 12490,35978 287,89866	9,98684,73590,6593 1,89479,2380	10,60226,11623 32,21707	58:12
96	97012,65964,90106 4,23563,29060	3 99888,57067 296,34358	4 12202,46112 287,48452	9,98682,84111,4213 1,89619,8046	10,60193,89916 32,19599	57:36
95	97008,42401,61046 4,23858,79516	3 99592,22709 295,93052	4 11914,97660 287,07126	9,98680,94491,6167 1,89760,3835	10,60161,70317 32,17495	57: 0
94	97004,18542,81530 4,24154,28680	3 99296,29657 295,51834	4 11627,90534 286,65889	9,98679,04731,2332 1,89900,9747	10,60129,52822 32,15394	56:24
93	96999,94388,52850 4,24449,76553	3 99000,77823 295,10703	4 11341,24645 286,24740	9,98677,14830,2585 1,90041,5782	10,60097,37428 32,13297	55:48
92	96995,69938,76297 4,24745,23132	3 98705,67120 294,69661	4 11054,99905 285,83677	9,98675,24788,6803 1,90182,1939	10,60065,24131 32,11201	55:12
91	96991,45193,53165 4,25040,68418	3 98410,97459 294,28705	4 10769,16228 285,42703	9,98673,34606,4864 1,90322,8221	10,60033,12930 32,09111	54:36
90	96987,20152,84747 4,25336,12409	3 98116,68754 293,87836	4 10483,73525 285,01816	9,98671,44283,6643 1,90463,4625	10,60001,03819 32,07021	54: 0
89	96982,94816,72338 4,25631,55105	3 97822,80918 293,47055	4 10198,71709 284,61015	9,98669,53820,2018 1,90604,1153	10,59968,96798 32,04936	53:24
88	96978,69185,17233 4,25926,96503	3 97529,33863 293,06360	4 09914,10694 284,20301	9,98667,63216,0865 1,90744,7804	10,59936,91862 32,02854	52:48
87	96974,43258,20730 4,26222,36605	3 97236,27503 292,65752	4 09629,90393 283,79673	9,98665,72471,3061 1,90885,4579	10,59904,89008 32,00775	52:12
86	96970,17035,84125 4,26517,75408	3 96943,61751 292,25229	4 09346,10720 283,39132	9,98663,81585,8482 1,91026,1477	10,59872,88233 31,98699	51:36
85	96965,90518,08717 4,26813,12911	3 96651,36522 291,84793	4 09062,71588 282,98675	9,98661,90559,7005 1,91166,8499	10,59840,89534 31,96626	51: 0
84	96961,63704,95806 4,27108,49115	3 96359,51729 291,44442	4 08779,72913 282,58306	9,98659,99392,8506 1,91307,5645	10,59808,92908 31,94556	50:24
83	96957,36596,46691 4,27403,84018	3 96068,07287 291,04177	4 08497,14607 282,18021	9,98658,08085,2861 1,91448,2916	10,59776,98352 31,92489	49:48
82	96953,09192,62673 4,27699,17618	3 95777,03110 290,63996	4 08214,96586 281,77822	9,98656,16636,9945 1,91589,0309	10,59745,05863 31,90425	49:12
81	96948,81493,45055 4,27994,49916	3 95486,39114 290,23901	4 07933,18764 281,37707	9,98654,25047,9636 1,91729,7828	10,59713,15438 31,88364	48:36
80	96944,53498,95139 4,28289,80910	3 95196,15213 289,83890	4 07651,81057 280,97677	9,98652,33318,1808 1,91870,5470	10,59681,27074 31,86307	48: 0
79	96940,25209,14229 4,28585,10600	3 94906,31323 289,43963	4 07370,83380 280,57731	9,98650,41447,6338 1,92011,3237	10,59649,40767 31,84252	47:24
78	96935,96624,03629 4,28880,38983	3 94616,87360 289,04122	4 07090,25649 280,17870	9,98648,49436,3101 1,92152,1129	10,59617,56515 31,82200	46:48
77	96931,67743,64646 4,29175,66061	3 94327,83238 288,64363	4 06810,07779 279,78093	9,98646,57284,1972 1,92292,9144	10,59585,74315 31,80152	46:12
76	96927,38567,98585 4,29470,91831	3 94039,18875 288,24690	4 06530,29686 279,38399	9,98644,64991,2828 1,92433,7285	10,59553,94163 31,78107	45:36
75	96923,09097,06754 4,29766,16292	3 93750,94185 287,85098	4 06250,91287 278,98788	9,98642,72557,5543 1,92574,5551	10,59522,16056 31,76063	45: 0
74	96918,79330,90462 4,30061,39446	3 93463,09087 287,45590	4 05971,92499 278,59262	9,98640,79982,9992 1,92715,3941	10,59490,39993 31,74025	44:24
73	96914,49269,51016 4,30356,61287	3 93175,63497 287,06166	4 05693,33237 278,19818	9,98638,87267,6051 1,92856,2457	10,59458,65968 31,71987	43:48
72	96910,18912,89729 4,30651,81820	3 92888,57331 286,66825	4 05415,13419 277,80456	9,98636,94411,3594 1,92997,1097	10,59426,93981 31,69955	43:12
71	96905,88261,07909 4,30947,01039	3 92601,90506 286,27565	4 05137,32963 277,41178	9,98635,01414,2497 1,93137,9862	10,59395,24026 31,67923	42:36
70	96901,57314,06870 4,31242,18947	3 92315,62941 285,88388	4 04859,91785 277,01982	9,98633,08276,2635 1,93278,8754	10,59363,56103 31,65896	42: 0
69	96897,26071,87923 4,31537,35540	3 92029,74553 285,49293	4 04582,89803 276,62867	9,98631,14997,3881 1,93419,7770	10,59331,90207 31,63872	41:24
68	96892,94534,52383 4,31832,50819	3 91744,25260 285,10280	4 04306,26936 276,23835	9,98629,21577,6111 1,93560,6912	10,59300,26335 31,61850	40:48
67	96888,62702,01564 4,32127,64782	3 91459,14980 284,71350	4 04030,03101 275,84884	9,98627,28016,9199 1,93701,6180	10,59268,64485 31,59831	40:12

GRAD. 75.

14. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	24750,63542,91970 16,90987,84328	25545,44965 18,59307	1 03211,28813 4,60348	9,39358,63531,6257 29,66129,6394	9,40731,35515 31,59831	19:48
34	24767,54530,76298 16,90912,39702	25564,04272 18,59473	1 03215,89161 4,60703	9,39388,29661,2651 29,63973,0214	9,40762,95346 31,57816	20:24
35	24784,45443,16000 16,90836,89926	25582,63745 18,59639	1 03220,49864 4,61058	9,39417,93634,2865 29,61819,3451	9,40794,53162 31,55802	21: 0
36	24801,36280,05926 16,90761,34998	25601,23384 18,59805	1 03225,10922 4,61415	9,39447,55453,6316 29,59668,6044	9,40826,08964 31,53793	21:36
37	24818,27041,40924 16,90685,74921	25619,83189 18,59972	1 03229,72337 4,61770	9,39477,15122,2360 29,57520,7930	9,40857,62757 31,51787	22:12
38	24835,17727,15845 16,90610,09694	25638,43161 18,60138	1 03234,34107 4,62125	9,39506,72643,0290 29,55375,9051	9,40889,14544 31,49782	22:48
39	24852,08337,25539 16,90534,39316	25657,03299 18,60305	1 03238,96232 4,62482	9,39536,28018,9341 29,53233,9343	9,40920,64326 31,47781	23:24
40	24868,98871,64855 16,90458,63789	25675,63604 18,60471	1 03243,58714 4,62838	9,39565,81252,8684 29,51094,8746	9,40952,12107 31,45784	24: 0
41	24885,89330,28644 16,90382,83112	25694,24075 18,60638	1 03248,21552 4,63194	9,39595,32347,7430 29,48958,7200	9,40983,57891 31,43788	24:36
42	24902,79713,11756 16,90306,97286	25712,84713 18,60806	1 03252,84746 4,63549	9,39624,81306,4630 29,46825,4644	9,41015,01679 31,41796	25:12
43	24919,70020,09042 16,90231,06312	25731,45519 18,60972	1 03257,48295 4,63906	9,39654,28131,9274 29,44695,1019	9,41046,43475 31,39807	25:48
44	24936,60251,15354 16,90155,10188	25750,06491 18,61140	1 03262,12201 4,64263	9,39683,72827,0293 29,42567,6263	9,41077,83282 31,37820	26:24
45	24953,50406,25542 16,90079,08917	25768,67631 18,61307	1 03266,76464 4,64618	9,39713,15394,6556 29,40443,0317	9,41109,21102 31,35837	27: 0
46	24970,40485,34459 16,90003,02496	25787,28938 18,61475	1 03271,41082 4,64975	9,39742,55837,6873 29,38321,3122	9,41140,56939 31,33856	27:36
47	24987,30488,36955 16,89926,90927	25805,90413 18,61642	1 03276,06057 4,65332	9,39771,94158,9995 29,36202,4617	9,41171,90795 31,31878	28:12
48	25004,20415,27882 16,89850,74212	25824,52055 18,61810	1 03280,71389 4,65688	9,39801,30361,4612 29,34086,4742	9,41203,22673 31,29904	28:48
49	25021,10266,02094 16,89774,52347	25843,13865 18,61979	1 03285,37077 4,66045	9,39830,64447,9354 29,31973,3441	9,41234,52577 31,27931	29:24
50	25038,00040,54441 16,89698,25337	25861,75844 18,62146	1 03290,03122 4,66401	9,39859,96421,2795 29,29863,0651	9,41265,80508 31,25963	30: 0
51	25054,89738,79778 16,89621,93179	25880,37990 18,62314	1 03294,69523 4,66759	9,39889,26284,3446 29,27755,6316	9,41297,06471 31,23996	30:36
52	25071,79360,72957 16,89545,55873	25899,00304 18,62483	1 03299,36282 4,67115	9,39918,54039,9762 29,25651,0375	9,41328,30467 31,22032	31:12
53	25088,68906,28830 16,89469,13422	25917,62787 18,62652	1 03304,03397 4,67472	9,39947,79691,0137 29,23549,2771	9,41359,52499 31,20072	31:48
54	25105,58375,42252 16,89392,65824	25936,25439 18,62820	1 03308,70869 4,67829	9,39977,03240,2908 29,21450,3445	9,41390,72571 31,18115	32:24
55	25122,47768,08076 16,89316,13079	25954,88259 18,62988	1 03313,38698 4,68187	9,40006,24690,6353 29,19354,2338	9,41421,90686 31,16159	33: 0
56	25139,37084,21155 16,89239,55189	25973,51247 18,63158	1 03318,06885 4,68543	9,40035,44044,8691 29,17260,9392	9,41453,06845 31,14208	33:36
57	25156,26323,76344 16,89162,92153	25992,14405 18,63327	1 03322,75428 4,68901	9,40064,61305,8083 29,15170,4551	9,41484,21053 31,12258	34:12
58	25173,15486,68497 16,89086,23972	26010,77732 18,63496	1 03327,44329 4,69258	9,40093,76476,2634 29,13082,7755	9,41515,33311 31,10311	34:48
59	25190,04572,92469 16,89009,50645	26029,41228 18,63665	1 03332,13587 4,69616	9,40122,89559,0389 29,10997,8947	9,41546,43622 31,08368	35:24
60	25206,93582,43114 16,88932,72173	26048,04893 18,63835	1 03336,83203 4,69973	9,40152,00556,9336 29,08915,8068	9,41577,51990 31,06428	36: 0
61	25223,82515,15287 16,88855,88556	26066,68728 18,64004	1 03341,53176 4,70330	9,40181,09472,7404 29,06836,5064	9,41608,58418 31,04489	36:36
62	25240,71371,03843 16,88778,99796	26085,32732 18,64174	1 03346,23506 4,70688	9,40210,16309,2468 29,04759,9876	9,41639,62907 31,02554	37:12
63	25257,60150,03639 16,88702,05890	26103,96906 18,64344	1 03350,94194 4,71046	9,40239,21069,2344 29,02686,2445	9,41670,65461 31,00621	37:48
64	25274,48852,09529 16,88625,06841	26122,61250 18,64514	1 03355,65240 4,71404	9,40268,23755,4789 29,00615,2717	9,41701,66082 30,98692	38:24
65	25291,37477,16370 16,88548,02648	26141,25764 18,64684	1 03360,36644 4,71762	9,40297,24370,7506 28,98547,0635	9,41732,64774 30,96765	39: 0
66	25308,26025,19018 16,88470,93310	26159,90448 18,64855	1 03365,08406 4,72120	9,40326,22917,8141 28,96481,6140	9,41763,61539 30,94841	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	96888,62702,01564 4,32127,64782	3 91459,14980 284,71350	4 04030,03101 275,84884	9,98627,28016,9199 1,93701,6180	10,59268,64485 31,59831	40:12
66	96884,30574,36782 4,32422,77430	3 91174,43630 284,32499	4 03754,18217 275,46015	9,98625,34315,3019 1,93842,5572	10,59237,04654 31,57816	39:36
65	96879,98151,59352 4,32717,88760	3 90890,11131 283,93730	4 03478,72202 275,07227	9,98623,40472,7447 1,93983,5092	10,59205,46838 31,55802	39: 0
64	96875,65433,70592 4,33012,98771	3 90606,17401 283,55043	4 03203,64975 274,68519	9,98621,46489,2355 1,94124,4737	10,59173,91036 31,53793	38:24
63	96871,32420,71821 4,33308,07464	3 90322,62358 283,16436	4 02928,96456 274,29894	9,98619,52364,7618 1,94265,4508	10,59142,37243 31,51787	37:48
62	96866,99112,64357 4,33603,14837	3 90039,45922 282,77909	4 02654,66562 273,91347	9,98617,58099,3110 1,94406,4405	10,59110,85456 31,49782	37:12
61	96862,65509,49520 4,33898,20889	3 89756,68013 282,39464	4 02380,75215 273,52881	9,98615,63692,8705 1,94547,4428	10,59079,35674 31,47781	36:36
60	96858,31611,28631 4,34193,25619	3 89474,28549 282,01097	4 02107,22334 273,14496	9,98613,69145,4277 1,94688,4578	10,59047,87893 31,45784	36: 0
59	96853,97418,03012 4,34488,29027	3 89192,27452 281,62811	4 01834,07838 272,76190	9,98611,74456,9699 1,94829,4854	10,59016,42109 31,43788	35:24
58	96849,62929,73985 4,34783,31111	3 88910,64641 281,24604	4 01561,31648 272,37964	9,98609,79627,4845 1,94970,5257	10,58984,98321 31,41796	34:48
57	96845,28146,42874 4,35078,31870	3 88629,40037 280,86477	4 01288,93684 271,99817	9,98607,84656,9588 1,95111,5787	10,58953,56525 31,39807	34:12
56	96840,93068,11004 4,35373,31305	3 88348,53560 280,48429	4 01016,93867 271,61749	9,98605,89545,3801 1,95252,6442	10,58922,16718 31,37820	33:36
55	96836,57694,79699 4,35668,29413	3 88068,05131 280,10461	4 00745,32118 271,23761	9,98603,94292,7359 1,95393,7225	10,58890,78898 31,35837	33: 0
54	96832,22026,50286 4,35963,26195	3 87787,94670 279,72569	4 00474,08357 270,85851	9,98601,98899,0134 1,95534,8135	10,58859,43061 31,33856	32:24
53	96827,86063,24091 4,36258,21647	3 87508,22101 279,34758	4 00203,22506 270,48019	9,98600,03364,1999 1,95675,9172	10,58828,09205 31,31878	31:48
52	96823,49805,02444 4,36553,15771	3 87228,87343 278,97025	3 99932,74487 270,10267	9,98598,07688,2827 1,95817,0336	10,58796,77327 31,29904	31:12
51	96819,13251,86673 4,36848,08565	3 86949,90318 278,59369	3 99662,64220 269,72591	9,98596,11871,2491 1,95958,1627	10,58765,47423 31,27931	30:36
50	96814,76403,78108 4,37143,00029	3 86671,30949 278,21792	3 99392,91629 269,34994	9,98594,15913,0864 1,96099,3046	10,58734,19492 31,25963	30: 0
49	96810,39260,78079 4,37437,90161	3 86393,09157 277,84292	3 99123,56635 268,97475	9,98592,19813,7818 1,96240,4592	10,58702,93529 31,23996	29:24
48	96806,01822,87918 4,37732,78960	3 86115,24865 277,46869	3 98854,59160 268,60032	9,98590,23573,3226 1,96381,6266	10,58671,69533 31,22032	28:48
47	96801,64090,08958 4,38027,66427	3 85837,77996 277,09525	3 98585,99128 268,22668	9,98588,27191,6960 1,96522,8068	10,58640,47501 31,20072	28:12
46	96797,26062,42531 4,38322,52558	3 85560,68471 276,72256	3 98317,76460 267,85380	9,98586,30668,8892 1,96663,9996	10,58609,27429 31,18115	27:36
45	96792,87739,89973 4,38617,37354	3 85283,96215 276,35065	3 98049,91080 267,48168	9,98584,34004,8896 1,96805,2054	10,58578,09314 31,16159	27: 0
44	96788,49122,52619 4,38912,20815	3 85007,61150 275,97950	3 97782,42912 267,11035	9,98582,37199,6842 1,96946,4239	10,58546,93155 31,14208	26:24
43	96784,10210,31804 4,39207,02939	3 84731,63200 275,60913	3 97515,31877 266,73976	9,98580,40253,2603 1,97087,6551	10,58515,78947 31,12258	25:48
42	96779,71003,28865 4,39501,83723	3 84456,02287 275,23950	3 97248,57901 266,36995	9,98578,43165,6052 1,97228,8993	10,58484,66689 31,10311	25:12
41	96775,31501,45142 4,39796,63171	3 84180,78337 274,87064	3 96982,20906 266,00088	9,98576,45936,7059 1,97370,1563	10,58453,56378 31,08368	24:36
40	96770,91704,81971 4,40091,41277	3 83905,91273 274,50253	3 96716,20818 265,63259	9,98574,48566,5496 1,97511,4261	10,58422,48010 31,06428	24: 0
39	96766,51613,40694 4,40386,18044	3 83631,41020 274,13519	3 96450,57559 265,26503	9,98572,51055,1235 1,97652,7087	10,58391,41582 31,04489	23:24
38	96762,11227,22650 4,40680,93469	3 83357,27501 273,76860	3 96185,31056 264,89825	9,98570,53402,4148 1,97794,0043	10,58360,37093 31,02554	22:48
37	96757,70546,29181 4,40975,67551	3 83083,50641 273,40275	3 95920,41231 264,53220	9,98568,55608,4105 1,97935,3126	10,58329,34539 31,00621	22:12
36	96753,29570,61630 4,41270,40291	3 82810,10366 273,03766	3 95655,88011 264,16692	9,98566,57673,0979 1,98076,6339	10,58298,33918 30,98692	21:36
35	96748,88300,21339 4,41565,11685	3 82537,06600 272,67332	3 95391,71319 263,80236	9,98564,59596,4640 1,98217,9680	10,58267,35226 30,96765	21: 0
34	96744,46735,09654 4,41859,81735	3 82264,39268 272,30971	3 95127,91083 263,43857	9,98562,61378,4960 1,98359,3151	10,58236,38461 30,94841	20:24

GRAD. 75.

14. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	25325,14496,12328	26178,55303	1 03369,80526	9,40355,19399,4281	9,41794,56380	40:12
	16,88393,78830	18,65025	4,72477	28,94418,9179	30,92920	
68	25342,02889,91158	26197,20328	1 03374,53003	9,40384,13818,3460	9,41825,49300	40:48
	16,88316,59207	18,65195	4,72836	28,92358,9693	30,91001	
69	25358,91206,50365	26215,85523	1 03379,25839	9,40413,06177,3153	9,41856,40301	41:24
	16,88239,34441	18,65366	4,73194	28,90301,7627	30,89085	
70	25375,79445,84806	26234,50889	1 03383,99033	9,40441,96479,0780	9,41887,29386	42: 0
	16,88162,04531	18,65537	4,73552	28,88247,2924	30,87172	
71	25392,67607,89337	26253,16426	1 03388,72585	9,40470,84726,3704	9,41918,16558	42:36
	16,88084,69480	18,65708	4,73911	28,86195,5531	30,85262	
72	25409,55692,58817	26271,82134	1 03393,46496	9,40499,70921,9235	9,41949,01820	43:12
	16,88007,29286	18,65879	4,74269	28,84146,5389	30,83354	
73	25426,43699,88103	26290,48013	1 03398,20765	9,40528,55068,4624	9,41979,85174	43:48
	16,87929,83951	18,66050	4,74628	28,82100,2444	30,81450	
74	25443,31629,72054	26309,14063	1 03402,95393	9,40557,37168,7068	9,42010,66624	44:24
	16,87852,33474	18,66221	4,74986	28,80056,6641	30,79547	
75	25460,19482,05528	26327,80284	1 03407,70379	9,40586,17225,3709	9,42041,46171	45: 0
	16,87774,77854	18,66393	4,75345	28,78015,7924	30,77648	
76	25477,07256,83382	26346,46677	1 03412,45724	9,40614,95241,1633	9,42072,23819	45:36
	16,87697,17095	18,66565	4,75703	28,75977,6239	30,75751	
77	25493,94954,00477	26365,13242	1 03417,21427	9,40643,71218,7872	9,42102,99570	46:12
	16,87619,51193	18,66737	4,76063	28,73942,1530	30,73857	
78	25510,82573,51670	26383,79979	1 03421,97490	9,40672,45160,9402	9,42133,73427	46:48
	16,87541,80152	18,66908	4,76421	28,71909,3742	30,71966	
79	25527,70115,31822	26402,46887	1 03426,73911	9,40701,17070,3144	9,42164,45393	47:24
	16,87464,03969	18,67081	4,76780	28,69879,2822	30,70077	
80	25544,57579,35791	26421,13968	1 03431,50691	9,40729,86949,5966	9,42195,15470	48: 0
	16,87386,22646	18,67252	4,77139	28,67851,8714	30,68191	
81	25561,44965,58437	26439,81220	1 03436,27830	9,40758,54801,4680	9,42225,83661	48:36
	16,87308,36183	18,67426	4,77499	28,65827,1364	30,66309	
82	25578,32273,94620	26458,48646	1 03441,05329	9,40787,20628,6044	9,42256,49970	49:12
	16,87230,44581	18,67597	4,77858	28,63805,0719	30,64427	
83	25595,19504,39201	26477,16243	1 03445,83187	9,40815,84433,6763	9,42287,14397	49:48
	16,87152,47839	18,67770	4,78217	28,61785,6723	30,62550	
84	25612,06656,87040	26495,84013	1 03450,61404	9,40844,46219,3486	9,42317,76947	50:24
	16,87074,45957	18,67943	4,78576	28,59768,9323	30,60675	
85	25628,93731,32997	26514,51956	1 03455,39980	9,40873,05988,2809	9,42348,37622	51: 0
	16,86996,38936	18,68116	4,78936	28,57754,8467	30,58802	
86	25645,80727,71933	26533,20072	1 03460,18916	9,40901,63743,1276	9,42378,96424	51:36
	16,86918,26776	18,68289	4,79295	28,55743,4099	30,56933	
87	25662,67645,98709	26551,88361	1 03464,98211	9,40930,19486,5375	9,42409,53357	52:12
	16,86840,09479	18,68462	4,79655	28,53734,6166	30,55065	
88	25679,54486,08188	26570,56823	1 03469,77866	9,40958,73221,1541	9,42440,08422	52:48
	16,86761,87041	18,68635	4,80015	28,51728,4615	30,53200	
89	25696,41247,95229	26589,25458	1 03474,57881	9,40987,24949,6156	9,42470,61622	53:24
	16,86683,59467	18,68809	4,80374	28,49724,9394	30,51339	
90	25713,27931,54696	26607,94267	1 03479,38255	9,41015,74674,5550	9,42501,12961	54: 0
	16,86605,26754	18,68982	4,80734	28,47724,0447	30,49480	
91	25730,14536,81450	26626,63249	1 03484,18989	9,41044,22398,5997	9,42531,62441	54:36
	16,86526,88904	18,69156	4,81095	28,45725,7725	30,47623	
92	25747,01063,70354	26645,32405	1 03489,00084	9,41072,68124,3722	9,42562,10064	55:12
	16,86448,45915	18,69330	4,81454	28,43730,1173	30,45769	
93	25763,87512,16269	26664,01735	1 03493,81538	9,41101,11854,4895	9,42592,55833	55:48
	16,86369,97791	18,69504	4,81814	28,41737,0738	30,43918	
94	25780,73882,14060	26682,71239	1 03498,63352	9,41129,53591,5633	9,42622,99751	56:24
	16,86291,44528	18,69678	4,82174	28,39746,6369	30,42068	
95	25797,60173,58588	26701,40917	1 03503,45526	9,41157,93338,2002	9,42653,41819	57: 0
	16,86212,86130	18,69853	4,82535	28,37758,8012	30,40223	
96	25814,46386,44718	26720,10770	1 03508,28061	9,41186,31097,0014	9,42683,82042	57:36
	16,86134,22594	18,70026	4,82895	28,35773,5616	30,38380	
97	25831,32520,67312	26738,80796	1 03513,10956	9,41214,66870,5630	9,42714,20422	58:12
	16,86055,53922	18,70202	4,83256	28,33790,9130	30,36538	
98	25848,18576,21234	26757,50998	1 03517,94212	9,41243,00661,4760	9,42744,56960	58:48
	16,85976,80115	18,70376	4,83616	28,31810,8499	30,34700	
99	25865,04553,01349	26776,21374	1 03522,77828	9,41271,32472,3259	9,42774,91660	59:24
	16,85898,01172	18,70550	4,83976	28,29833,3675	30,32865	
100	25881,90451,02521	26794,91924	1 03527,61804	9,41299,62305,6934	9,42805,24525	60: 0
	16,85819,17092	18,70726	4,84337	28,27858,4603	30,31031	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	96740,04875,27919 4,42154,50440	3 81992,08297 271,94686	3 94864,47226 263,07551	9,98560,63019,1809 1,98500,6751	10,58205,43620 30,92920	19:48
32	96735,62720,77479 4,42449,17796	3 81720,13611 271,58474	3 94601,39675 262,71320	9,98558,64518,5058 1,98642,0480	10,58174,50700 30,91001	19:12
31	96731,20271,59683 4,42743,83806	3 81448,55137 271,22336	3 94338,68355 262,35162	9,98556,65876,4578 1,98783,4337	10,58143,59699 30,89085	18:36
30	96726,77527,75877 4,43038,48467	3 81177,32801 270,86273	3 94076,33193 261,99078	9,98554,67093,0241 1,98924,8326	10,58112,70614 30,87172	18: 0
29	96722,34489,27410 4,43333,11777	3 80906,46528 270,50282	3 93814,34115 261,63068	9,98552,68168,1915 1,99066,2443	10,58081,83442 30,85262	17:24
28	96717,91156,15633 4,43627,73738	3 80635,96246 270,14365	3 93552,71047 261,27131	9,98550,69101,9472 1,99207,6690	10,58050,98180 30,83354	16:48
27	96713,47528,41895 4,43922,34348	3 80365,81881 269,78521	3 93291,43916 260,91267	9,98548,69894,2782 1,99349,1066	10,58020,14826 30,81450	16:12
26	96709,03606,07547 4,44216,93604	3 80096,03360 269,42751	3 93030,52649 260,55476	9,98546,70545,1716 1,99490,5573	10,57989,33376 30,79547	15:36
25	96704,59389,13943 4,44511,51508	3 79826,60609 269,07052	3 92769,97173 260,19757	9,98544,71054,6143 1,99632,0209	10,57958,53829 30,77648	15: 0
24	96700,14877,62435 4,44806,08058	3 79557,53557 268,71426	3 92509,77416 259,84112	9,98542,71422,5934 1,99773,4976	10,57927,76181 30,75751	14:24
23	96695,70071,54377 4,45100,63252	3 79288,82131 268,35873	3 92249,93304 259,48538	9,98540,71649,0958 1,99914,9872	10,57897,00430 30,73857	13:48
22	96691,24970,91125 4,45395,17092	3 79020,46258 268,00392	3 91990,44766 259,13037	9,98538,71734,1086 2,00056,4899	10,57866,26573 30,71966	13:12
21	96686,79575,74033 4,45689,69574	3 78752,45866 267,64982	3 91731,31729 258,77608	9,98536,71677,6187 2,00198,0057	10,57835,54607 30,70077	12:36
20	96682,33886,04459 4,45984,20698	3 78484,80884 267,29645	3 91472,54121 258,42250	9,98534,71479,6130 2,00339,5344	10,57804,84530 30,68191	12: 0
19	96677,87901,83761 4,46278,70464	3 78217,51239 266,94379	3 91214,11871 258,06964	9,98532,71140,0786 2,00481,0763	10,57774,16339 30,66309	11:24
18	96673,41623,13297 4,46573,18871	3 77950,56860 266,59185	3 90956,04907 257,71749	9,98530,70659,0023 2,00622,6312	10,57743,50030 30,64427	10:48
17	96668,95049,94426 4,46867,65917	3 77683,97675 266,24061	3 90698,33158 257,36606	9,98528,70036,3711 2,00764,1992	10,57712,85603 30,62550	10:12
16	96664,48182,28509 4,47162,11602	3 77417,73614 265,89008	3 90440,96552 257,01533	9,98526,69272,1719 2,00905,7802	10,57682,23053 30,60675	9:36
15	96660,01020,16907 4,47456,55924	3 77151,84606 265,54027	3 90183,95019 256,66532	9,98524,68366,3917 2,01047,3744	10,57651,62378 30,58802	9: 0
14	96655,53563,60983 4,47750,98885	3 76886,30579 265,19116	3 89927,28487 256,31600	9,98522,67319,0173 2,01188,9817	10,57621,03576 30,56933	8:24
13	96651,05812,62098 4,48045,40480	3 76621,11463 264,84276	3 89670,96887 255,96739	9,98520,66130,0356 2,01330,6020	10,57590,46643 30,55065	7:48
12	96646,57767,21618 4,48339,80712	3 76356,27187 264,49505	3 89415,00148 255,61949	9,98518,64799,4336 2,01472,2357	10,57559,91578 30,53200	7:12
11	96642,09427,40906 4,48634,19577	3 76091,77682 264,14804	3 89159,38199 255,27228	9,98516,63327,1979 2,01613,8823	10,57529,38378 30,51339	6:36
10	96637,60793,21329 4,48928,57075	3 75827,62878 263,80174	3 88904,10971 254,92577	9,98514,61713,3156 2,01755,5421	10,57498,87039 30,49480	6: 0
9	96633,11864,64254 4,49222,93207	3 75563,82704 263,45614	3 88649,18394 254,57996	9,98512,59957,7735 2,01897,2151	10,57468,37559 30,47623	5:24
8	96628,62641,71047 4,49517,27969	3 75300,37090 263,11122	3 88394,60398 254,23485	9,98510,58060,5584 2,02038,9013	10,57437,89936 30,45769	4:48
7	96624,13124,43078 4,49811,61363	3 75037,25968 262,76700	3 88140,36913 253,89042	9,98508,56021,6571 2,02180,6006	10,57407,44167 30,43918	4:12
6	96619,63312,81715 4,50105,93386	3 74774,49268 262,42346	3 87886,47871 253,54669	9,98506,53841,0565 2,02322,3131	10,57377,00249 30,42068	3:36
5	96615,13206,88329 4,50400,24039	3 74512,06922 262,08063	3 87632,93202 253,20364	9,98504,51518,7434 2,02464,0389	10,57346,58181 30,40223	3: 0
4	96610,62806,64290 4,50694,53318	3 74249,98859 261,73848	3 87379,72838 252,86129	9,98502,49054,7045 2,02605,7779	10,57316,17958 30,38380	2:24
3	96606,12112,10972 4,50988,81226	3 73988,25011 261,39701	3 87126,86709 252,51962	9,98500,46448,9266 2,02747,5300	10,57285,79578 30,36538	1:48
2	96601,61123,29746 4,51283,07760	3 73726,85310 261,05622	3 86874,34747 252,17863	9,98498,43701,3966 2,02889,2955	10,57255,43040 30,34700	1:12
1	96597,09840,21986 4,51577,32918	3 73465,79688 260,71612	3 86622,16884 251,83832	9,98496,40812,1011 2,03031,0741	10,57225,08340 30,32865	0:36
0	96592,58262,89068 4,51871,56701	3 73205,08076 260,37670	3 86370,33052 251,49870	9,98494,37781,0270 2,03172,8661	10,57194,75475 30,31031	0: 0

GRAD. 75.

15. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	25881,90451,02521 16,85819,17092	26794,91924 18,70726	1 03527,61804 4,84337	9,41299,62305,6934 28,27858,4603	9,42805,24525 30,31031	0: 0
1	25898,76270,19613 16,85740,27879	26813,62650 18,70901	1 03532,46141 4,84698	9,41327,90164,1537 28,25886,1234	9,42835,55556 30,29201	0:36
2	25915,62010,47492 16,85661,33529	26832,33551 18,71076	1 03537,30839 4,85059	9,41356,16050,2771 28,23916,3515	9,42865,84757 30,27373	1:12
3	25932,47671,81021 16,85582,34044	26851,04627 18,71252	1 03542,15898 4,85419	9,41384,39966,6286 28,21949,1396	9,42896,12130 30,25547	1:48
4	25949,33254,15065 16,85503,29427	26869,75879 18,71427	1 03547,01317 4,85781	9,41412,61915,7682 28,19984,4826	9,42926,37677 30,23725	2:24
5	25966,18757,44492 16,85424,19673	26888,47306 18,71602	1 03551,87098 4,86141	9,41440,81900,2508 28,18022,3752	9,42956,61402 30,21904	3: 0
6	25983,04181,64165 16,85345,04786	26907,18908 18,71779	1 03556,73239 4,86503	9,41468,99922,6260 28,16062,8125	9,42986,83306 30,20087	3:36
7	25999,89526,68951 16,85265,84765	26925,90687 18,71954	1 03561,59742 4,86864	9,41497,15985,4385 28,14105,7895	9,43017,03393 30,18271	4:12
8	26016,74792,53716 16,85186,59610	26944,62641 18,72131	1 03566,46606 4,87225	9,41525,30091,2280 28,12151,3009	9,43047,21664 30,16459	4:48
9	26033,59979,13326 16,85107,29322	26963,34772 18,72306	1 03571,33831 4,87587	9,41553,42242,5289 28,10199,3420	9,43077,38123 30,14649	5:24
10	26050,45086,42648 16,85027,93902	26982,07078 18,72483	1 03576,21418 4,87948	9,41581,52441,8709 28,08249,9075	9,43107,52772 30,12842	6: 0
11	26067,30114,36550 16,84948,53347	27000,79561 18,72660	1 03581,09366 4,88310	9,41609,60691,7784 28,06302,9924	9,43137,65614 30,11036	6:36
12	26084,15062,89897 16,84869,07661	27019,52221 18,72836	1 03585,97676 4,88671	9,41637,66994,7708 28,04358,5918	9,43167,76650 30,09234	7:12
13	26100,99931,97558 16,84789,56841	27038,25057 18,73013	1 03590,86347 4,89033	9,41665,71353,3626 28,02416,7008	9,43197,85884 30,07434	7:48
14	26117,84721,54399 16,84710,00891	27056,98070 18,73190	1 03595,75380 4,89394	9,41693,73770,0634 28,00477,3141	9,43227,93318 30,05637	8:24
15	26134,69431,55290 16,84630,39807	27075,71260 18,73367	1 03600,64774 4,89757	9,41721,74247,3775 27,98540,4272	9,43257,98955 30,03842	9: 0
16	26151,54061,95097 16,84550,73592	27094,44627 18,73544	1 03605,54531 4,90118	9,41749,72787,8047 27,96606,0347	9,43288,02797 30,02049	9:36
17	26168,38612,68689 16,84471,02247	27113,18171 18,73721	1 03610,44649 4,90481	9,41777,69393,8394 27,94674,1320	9,43318,04846 30,00260	10:12
18	26185,23083,70936 16,84391,25768	27131,91892 18,73899	1 03615,35130 4,90842	9,41805,64067,9714 27,92744,7140	9,43348,05106 29,98472	10:48
19	26202,07474,96704 16,84311,44161	27150,65791 18,74076	1 03620,25972 4,91205	9,41833,56812,6854 27,90817,7758	9,43378,03578 29,96687	11:24
20	26218,91786,40865 16,84231,57421	27169,39867 18,74254	1 03625,17177 4,91567	9,41861,47630,4612 27,88893,3127	9,43408,00265 29,94905	12: 0
21	26235,76017,98286 16,84151,65552	27188,14121 18,74433	1 03630,08744 4,91929	9,41889,36523,7739 27,86971,3195	9,43437,95170 29,93125	12:36
22	26252,60169,63838 16,84071,68552	27206,88554 18,74610	1 03635,00673 4,92292	9,41917,23495,0934 27,85051,7915	9,43467,88295 29,91347	13:12
23	26269,44241,32390 16,83991,66422	27225,63164 18,74788	1 03639,92965 4,92654	9,41945,08546,8849 27,83134,7239	9,43497,79642 29,89573	13:48
24	26286,28232,98812 16,83911,59163	27244,37952 18,74967	1 03644,85619 4,93017	9,41972,91681,6088 27,81220,1119	9,43527,69215 29,87800	14:24
25	26303,12144,57975 16,83831,46774	27263,12919 18,75145	1 03649,78636 4,93380	9,42000,72901,7207 27,79307,9503	9,43557,57015 29,86030	15: 0
26	26319,95976,04749 16,83751,29255	27281,88064 18,75323	1 03654,72016 4,93742	9,42028,52209,6710 27,77398,2348	9,43587,43045 29,84262	15:36
27	26336,79727,34004 16,83671,06609	27300,63387 18,75502	1 03659,65758 4,94105	9,42056,29607,9058 27,75490,9603	9,43617,27307 29,82497	16:12
28	26353,63398,40613 16,83590,78832	27319,38889 18,75682	1 03664,59863 4,94468	9,42084,05098,8661 27,73586,1219	9,43647,09804 29,80735	16:48
29	26370,46989,19445 16,83510,45928	27338,14571 18,75860	1 03669,54331 4,94831	9,42111,78684,9880 27,71683,7150	9,43676,90539 29,78974	17:24
30	26387,30499,65373 16,83430,07895	27356,90431 18,76039	1 03674,49162 4,95194	9,42139,50368,7030 27,69783,7350	9,43706,69513 29,77217	18: 0
31	26404,13929,73268 16,83349,64735	27375,66470 18,76219	1 03679,44356 4,95558	9,42167,20152,4380 27,67886,1767	9,43736,46730 29,75461	18:36
32	26420,97279,38003 16,83269,16445	27394,42689 18,76398	1 03684,39914 4,95920	9,42194,88038,6147 27,65991,0357	9,43766,22191 29,73708	19:12
33	26437,80548,54448 16,83188,63030	27413,19087 18,76577	1 03689,35834 4,96284	9,42222,54029,6504 27,64098,3071	9,43795,95899 29,71958	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	96592,58262,89068 4,51871,56701	3 73205,08076 260,37670	3 86370,33052 251,49870	9,98494,37781,0270 2,03172,8661	10,57194,75475 30,31031	60: 0
99	96588,06391,32367 4,52165,79108	3 72944,70406 260,03796	3 86118,83182 251,15975	9,98492,34608,1609 2,03314,6712	10,57164,44444 30,29201	59:24
98	96583,54225,53259 4,52460,00138	3 72684,66610 259,69989	3 85867,67207 250,82148	9,98490,31293,4897 2,03456,4897	10,57134,15243 30,27373	58:48
97	96579,01765,53121 4,52754,19788	3 72424,96621 259,36249	3 85616,85059 250,48388	9,98488,27837,0000 2,03598,3215	10,57103,87870 30,25547	58:12
96	96574,49011,33333 4,53048,38061	3 72165,60372 259,02578	3 85366,36671 250,14696	9,98486,24238,6785 2,03740,1665	10,57073,62323 30,23725	57:36
95	96569,95962,95272 4,53342,54952	3 71906,57794 258,68973	3 85116,21975 249,81070	9,98484,20498,5120 2,03882,0249	10,57043,38598 30,21904	57: 0
94	96565,42620,40320 4,53636,70463	3 71647,88821 258,35435	3 84866,40905 249,47512	9,98482,16616,4871 2,04023,8966	10,57013,16694 30,20087	56:24
93	96560,88983,69857 4,53930,84592	3 71389,53386 258,01963	3 84616,93393 249,14020	9,98480,12592,5905 2,04165,7816	10,56982,96607 30,18271	55:48
92	96556,35052,85265 4,54224,97339	3 71131,51423 257,68559	3 84367,79373 248,80595	9,98478,08426,8089 2,04307,6799	10,56952,78336 30,16459	55:12
91	96551,80827,87926 4,54519,08701	3 70873,82864 257,35221	3 84118,98778 248,47237	9,98476,04119,1290 2,04449,5917	10,56922,61877 30,14649	54:36
90	96547,26308,79225 4,54813,18679	3 70616,47643 257,01948	3 83870,51541 248,13943	9,98473,99669,5373 2,04591,5167	10,56892,47228 30,12842	54: 0
89	96542,71495,60546 4,55107,27272	3 70359,45695 256,68743	3 83622,37598 247,80718	9,98471,95078,0206 2,04733,4551	10,56862,34386 30,11036	53:24
88	96538,16388,33274 4,55401,34478	3 70102,76952 256,35603	3 83374,56880 247,47556	9,98469,90344,5655 2,04875,4070	10,56832,23350 30,09234	52:48
87	96533,60986,98796 4,55695,40298	3 69846,41349 256,02528	3 83127,09324 247,14462	9,98467,85469,1585 2,05017,3722	10,56802,14116 30,07434	52:12
86	96529,05291,58498 4,55989,44728	3 69590,38821 255,69519	3 82879,94862 246,81432	9,98465,80451,7863 2,05159,3509	10,56772,06682 30,05637	51:36
85	96524,49302,13770 4,56283,47770	3 69334,69302 255,36576	3 82633,13430 246,48468	9,98463,75292,4354 2,05301,3428	10,56742,01045 30,03842	51: 0
84	96519,93018,66000 4,56577,49422	3 69079,32726 255,03697	3 82386,64962 246,15569	9,98461,69991,0926 2,05443,3483	10,56711,97203 30,02049	50:24
83	96515,36441,16578 4,56871,49684	3 68824,29029 254,70884	3 82140,49393 245,82734	9,98459,64547,7443 2,05585,3673	10,56681,95154 30,00260	49:48
82	96510,79569,66894 4,57165,48553	3 68569,58145 254,38136	3 81894,66659 245,49966	9,98457,58962,3770 2,05727,3995	10,56651,94894 29,98472	49:12
81	96506,22404,18341 4,57459,46030	3 68315,20009 254,05452	3 81649,16693 245,17261	9,98455,53234,9775 2,05869,4454	10,56621,96422 29,96687	48:36
80	96501,64944,72311 4,57753,42113	3 68061,14557 253,72832	3 81403,99432 244,84622	9,98453,47365,5321 2,06011,5047	10,56591,99735 29,94905	48: 0
79	96497,07191,30198 4,58047,36802	3 67807,41725 253,40277	3 81159,14810 244,52045	9,98451,41354,0274 2,06153,5774	10,56562,04830 29,93125	47:24
78	96492,49143,93396 4,58341,30096	3 67554,01448 253,07787	3 80914,62765 244,19534	9,98449,35200,4500 2,06295,6636	10,56532,11705 29,91347	46:48
77	96487,90802,63300 4,58635,21993	3 67300,93661 252,75359	3 80670,43231 243,87086	9,98447,28904,7864 2,06437,7633	10,56502,20358 29,89573	46:12
76	96483,32167,41307 4,58929,12494	3 67048,18302 252,42997	3 80426,56145 243,54703	9,98445,22467,0231 2,06579,8766	10,56472,30785 29,87800	45:36
75	96478,73238,28813 4,59223,01596	3 66795,75305 252,10697	3 80183,01442 243,22382	9,98443,15887,1465 2,06722,0034	10,56442,42985 29,86030	45: 0
74	96474,14015,27217 4,59516,89300	3 66543,64608 251,78461	3 79939,79060 242,90126	9,98441,09165,1431 2,06864,1437	10,56412,56955 29,84262	44:24
73	96469,54498,37917 4,59810,75604	3 66291,86147 251,46289	3 79696,88934 242,57932	9,98439,02300,9994 2,07006,2975	10,56382,72693 29,82497	43:48
72	96464,94687,62313 4,60104,60507	3 66040,39858 251,14179	3 79454,31002 242,25802	9,98436,95294,7019 2,07148,4649	10,56352,90196 29,80735	43:12
71	96460,34583,01806 4,60398,44008	3 65789,25679 250,82132	3 79212,05200 241,93734	9,98434,88146,2370 2,07290,6458	10,56323,09461 29,78974	42:36
70	96455,74184,57798 4,60692,26107	3 65538,43547 250,50149	3 78970,11466 241,61731	9,98432,80855,5912 2,07432,8404	10,56293,30487 29,77217	42: 0
69	96451,13492,31691 4,60986,06804	3 65287,93398 250,18228	3 78728,49735 241,29788	9,98430,73422,7508 2,07575,0485	10,56263,53270 29,75461	41:24
68	96446,52506,24887 4,61279,86095	3 65037,75170 249,86370	3 78487,19947 240,97909	9,98428,65847,7023 2,07717,2702	10,56233,77809 29,73708	40:48
67	96441,91226,38792 4,61573,63981	3 64787,88800 249,54573	3 78246,22038 240,66092	9,98426,58130,4321 2,07859,5055	10,56204,04101 29,71958	40:12

GRAD. 74.

15. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	26437,80548,54448 16,83188,63030	27413,19087 18,76577	1 03689,35834 4,96284	9,42222,54029,6504 27,64098,3071	9,43795,95899 29,71958	19:48
34	26454,63737,17478 16,83108,04487	27431,95664 18,76758	1 03694,32118 4,96647	9,42250,18127,9575 27,62207,9864	9,43825,67857 29,70210	20:24
35	26471,46845,21965 16,83027,40816	27450,72422 18,76937	1 03699,28765 4,97011	9,42277,80335,9439 27,60320,0686	9,43855,38067 29,68464	21: 0
36	26488,29872,62781 16,82946,72019	27469,49359 18,77117	1 03704,25776 4,97375	9,42305,40656,0125 27,58434,5493	9,43885,06531 29,66721	21:36
37	26505,12819,34800 16,82865,98095	27488,26476 18,77297	1 03709,23151 4,97738	9,42332,99090,5618 27,56551,4235	9,43914,73252 29,64980	22:12
38	26521,95685,32895 16,82785,19045	27507,03773 18,77478	1 03714,20889 4,98101	9,42360,55641,9853 27,54670,6867	9,43944,38232 29,63241	22:48
39	26538,78470,51940 16,82704,34869	27525,81251 18,77658	1 03719,18990 4,98466	9,42388,10312,6720 27,52792,3344	9,43974,01473 29,61506	23:24
40	26555,61174,86809 16,82623,45567	27544,58909 18,77838	1 03724,17456 4,98829	9,42415,63105,0064 27,50916,3616	9,44003,62979 29,59772	24: 0
41	26572,43798,32376 16,82542,51139	27563,36747 18,78019	1 03729,16285 4,99194	9,42443,14021,3680 27,49042,7640	9,44033,22751 29,58040	24:36
42	26589,26340,83515 16,82461,51587	27582,14766 18,78200	1 03734,15479 4,99557	9,42470,63064,1320 27,47171,5368	9,44062,80791 29,56312	25:12
43	26606,08802,35102 16,82380,46909	27600,92966 18,78381	1 03739,15036 4,99922	9,42498,10235,6688 27,45302,6755	9,44092,37103 29,54585	25:48
44	26622,91182,82011 16,82299,37106	27619,71347 18,78562	1 03744,14958 5,00286	9,42525,55538,3443 27,43436,1753	9,44121,91688 29,52862	26:24
45	26639,73482,19117 16,82218,22179	27638,49909 18,78743	1 03749,15244 5,00650	9,42552,98974,5196 27,41572,0317	9,44151,44550 29,51139	27: 0
46	26656,55700,41296 16,82137,02128	27657,28652 18,78925	1 03754,15894 5,01015	9,42580,40546,5513 27,39710,2404	9,44180,95689 29,49420	27:36
47	26673,37837,43424 16,82055,76952	27676,07577 18,79106	1 03759,16909 5,01379	9,42607,80256,7917 27,37850,7965	9,44210,45109 29,47703	28:12
48	26690,19893,20376 16,81974,46652	27694,86683 18,79288	1 03764,18288 5,01744	9,42635,18107,5882 27,35993,6955	9,44239,92812 29,45988	28:48
49	26707,01867,67028 16,81893,11229	27713,65971 18,79470	1 03769,20032 5,02108	9,42662,54101,2837 27,34138,9329	9,44269,38800 29,44277	29:24
50	26723,83760,78257 16,81811,70683	27732,45441 18,79651	1 03774,22140 5,02473	9,42689,88240,2166 27,32286,5043	9,44298,83077 29,42566	30: 0
51	26740,65572,48940 16,81730,25013	27751,25092 18,79834	1 03779,24613 5,02838	9,42717,20526,7209 27,30436,4051	9,44328,25643 29,40858	30:36
52	26757,47302,73953 16,81648,74220	27770,04926 18,80016	1 03784,27451 5,03203	9,42744,50963,1260 27,28588,6307	9,44357,66501 29,39153	31:12
53	26774,28951,48173 16,81567,18306	27788,84942 18,80198	1 03789,30654 5,03568	9,42771,79551,7567 27,26743,1767	9,44387,05654 29,37451	31:48
54	26791,10518,66479 16,81485,57269	27807,65140 18,80381	1 03794,34222 5,03933	9,42799,06294,9334 27,24900,0385	9,44416,43105 29,35749	32:24
55	26807,92004,23748 16,81403,91109	27826,45521 18,80563	1 03799,38155 5,04298	9,42826,31194,9719 27,23059,2120	9,44445,78854 29,34052	33: 0
56	26824,73408,14857 16,81322,19828	27845,26084 18,80747	1 03804,42453 5,04663	9,42853,54254,1839 27,21220,6922	9,44475,12906 29,32355	33:36
57	26841,54730,34685 16,81240,43425	27864,06831 18,80929	1 03809,47116 5,05029	9,42880,75474,8761 27,19384,4751	9,44504,45261 29,30662	34:12
58	26858,35970,78110 16,81158,61900	27882,87760 18,81112	1 03814,52145 5,05394	9,42907,94859,3512 27,17550,5561	9,44533,75923 29,28970	34:48
59	26875,17129,40010 16,81076,75256	27901,68872 18,81296	1 03819,57539 5,05759	9,42935,12409,9073 27,15718,9306	9,44563,04893 29,27281	35:24
60	26891,98206,15266 16,80994,83489	27920,50168 18,81479	1 03824,63298 5,06125	9,42962,28128,8379 27,13889,5946	9,44592,32174 29,25595	36: 0
61	26908,79200,98755 16,80912,86602	27939,31647 18,81662	1 03829,69423 5,06491	9,42989,42018,4325 27,12062,5433	9,44621,57769 29,23910	36:36
62	26925,60113,85357 16,80830,84596	27958,13309 18,81846	1 03834,75914 5,06857	9,43016,54080,9758 27,10237,7725	9,44650,81679 29,22228	37:12
63	26942,40944,69953 16,80748,77468	27976,95155 18,82030	1 03839,82771 5,07222	9,43043,64318,7483 27,08415,2779	9,44680,03907 29,20549	37:48
64	26959,21693,47421 16,80666,65221	27995,77185 18,82213	1 03844,89993 5,07588	9,43070,72734,0262 27,06595,0549	9,44709,24456 29,18870	38:24
65	26976,02360,12642 16,80584,47854	28014,59398 18,82398	1 03849,97581 5,07954	9,43097,79329,0811 27,04777,0993	9,44738,43326 29,17196	39: 0
66	26992,82944,60496 16,80502,25369	28033,41796 18,82582	1 03855,05535 5,08321	9,43124,84106,1804 27,02961,4068	9,44767,60522 29,15522	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	96441,91226,38792 4,61573,63981	3 64787,88800 249,54573	3 78246,22038 240,66092	9,98426,58130,4321 2,07859,5055	10,56204,04101 29,71958	40:12
66	96437,29652,74811 4,61867,40461	3 64538,34227 249,22840	3 78005,55946 240,34337	9,98424,50270,9266 2,08001,7544	10,56174,32143 29,70210	39:36
65	96432,67785,34350 4,62161,15535	3 64289,11387 248,91167	3 77765,21609 240,02645	9,98422,42269,1722 2,08144,0170	10,56144,61933 29,68464	39: 0
64	96428,05624,18815 4,62454,89201	3 64040,20220 248,59558	3 77525,18964 239,71013	9,98420,34125,1552 2,08286,2931	10,56114,93469 29,66721	38:24
63	96423,43169,29614 4,62748,61457	3 63791,60662 248,28008	3 77285,47951 239,39444	9,98418,25838,8621 2,08428,5830	10,56085,26748 29,64980	37:48
62	96418,80420,68157 4,63042,32305	3 63543,32654 247,96522	3 77046,08507 239,07936	9,98416,17410,2791 2,08570,8865	10,56055,61768 29,63241	37:12
61	96414,17378,35852 4,63336,01742	3 63295,36132 247,65097	3 76807,00571 238,76489	9,98414,08839,3926 2,08713,2037	10,56025,98527 29,61506	36:36
60	96409,54042,34110 4,63629,69767	3 63047,71035 247,33732	3 76568,24082 238,45105	9,98412,00126,1889 2,08855,5345	10,55996,37021 29,59772	36: 0
59	96404,90412,64343 4,63923,36380	3 62800,37303 247,02429	3 76329,78977 238,13780	9,98409,91270,6544 2,08997,8790	10,55966,77249 29,58040	35:24
58	96400,26489,27963 4,64217,01580	3 62553,34874 246,71186	3 76091,65197 237,82516	9,98407,82272,7754 2,09140,2373	10,55937,19209 29,56312	34:48
57	96395,62272,26383 4,64510,65365	3 62306,63688 246,40005	3 75853,82681 237,51314	9,98405,73132,5381 2,09282,6092	10,55907,62897 29,54585	34:12
56	96390,97761,61018 4,64804,27737	3 62060,23683 246,08884	3 75616,31367 237,20172	9,98403,63849,9289 2,09424,9949	10,55878,08312 29,52862	33:36
55	96386,32957,33281 4,65097,88691	3 61814,14799 245,77823	3 75379,11195 236,89090	9,98401,54424,9340 2,09567,3943	10,55848,55450 29,51139	33: 0
54	96381,67859,44590 4,65391,48230	3 61568,36976 245,46822	3 75142,22105 236,58069	9,98399,44857,5397 2,09709,8074	10,55819,04311 29,49420	32:24
53	96377,02467,96360 4,65685,06350	3 61322,90154 245,15883	3 74905,64036 236,27107	9,98397,35147,7323 2,09852,2344	10,55789,54891 29,47703	31:48
52	96372,36782,90010 4,65978,63052	3 61077,74271 244,85002	3 74669,36929 235,96206	9,98395,25295,4979 2,09994,6750	10,55760,07188 29,45988	31:12
51	96367,70804,26958 4,66272,18335	3 60832,89269 244,54181	3 74433,40723 235,65365	9,98393,15300,8229 2,10137,1294	10,55730,61200 29,44277	30:36
50	96363,04532,08623 4,66565,72197	3 60588,35088 244,23421	3 74197,75358 235,34582	9,98391,05163,6935 2,10279,5977	10,55701,16923 29,42566	30: 0
49	96358,37966,36426 4,66859,24637	3 60344,11667 243,92719	3 73962,40776 235,03860	9,98388,94884,0958 2,10422,0797	10,55671,74357 29,40858	29:24
48	96353,71107,11789 4,67152,75657	3 60100,18948 243,62077	3 73727,36916 234,73196	9,98386,84462,0161 2,10564,5755	10,55642,33499 29,39153	28:48
47	96349,03954,36132 4,67446,25252	3 59856,56871 243,31495	3 73492,63720 234,42593	9,98384,73897,4406 2,10707,0851	10,55612,94346 29,37451	28:12
46	96344,36508,10880 4,67739,73424	3 59613,25376 243,00970	3 73258,21127 234,12047	9,98382,63190,3555 2,10849,6087	10,55583,56895 29,35749	27:36
45	96339,68768,37456 4,68033,20171	3 59370,24406 242,70505	3 73024,09080 233,81562	9,98380,52340,7468 2,10992,1460	10,55554,21146 29,34052	27: 0
44	96335,00735,17285 4,68326,65493	3 59127,53901 242,40100	3 72790,27518 233,51133	9,98378,41348,6008 2,11134,6971	10,55524,87094 29,32355	26:24
43	96330,32408,51792 4,68620,09387	3 58885,13801 242,09751	3 72556,76385 233,20765	9,98376,30213,9037 2,11277,2621	10,55495,54739 29,30662	25:48
42	96325,63788,42405 4,68913,51854	3 58643,04050 241,79462	3 72323,55620 232,90455	9,98374,18936,6416 2,11419,8411	10,55466,24077 29,28970	25:12
41	96320,94874,90551 4,69206,92893	3 58401,24588 241,49232	3 72090,65165 232,60202	9,98372,07516,8005 2,11562,4338	10,55436,95107 29,27281	24:36
40	96316,25667,97658 4,69500,32502	3 58159,75356 241,19058	3 71858,04963 232,30009	9,98369,95954,3667 2,11705,0406	10,55407,67826 29,25595	24: 0
39	96311,56167,65156 4,69793,70682	3 57918,56298 240,88944	3 71625,74954 231,99872	9,98367,84249,3261 2,11847,6611	10,55378,42231 29,23910	23:24
38	96306,86373,94474 4,70087,07430	3 57677,67354 240,58886	3 71393,75082 231,69794	9,98365,72401,6650 2,11990,2956	10,55349,18321 29,22228	22:48
37	96302,16286,87044 4,70380,42747	3 57437,08468 240,28888	3 71162,05288 231,39773	9,98363,60411,3694 2,12132,9440	10,55319,96093 29,20549	22:12
36	96297,45906,44297 4,70673,76630	3 57196,79580 239,98945	3 70930,65515 231,09810	9,98361,48278,4254 2,12275,6063	10,55290,75544 29,18870	21:36
35	96292,75232,67667 4,70967,09079	3 56956,80635 239,69061	3 70699,55705 230,79904	9,98359,36002,8191 2,12418,2827	10,55261,56674 29,17196	21: 0
34	96288,04265,58588 4,71260,40095	3 56717,11574 239,39234	3 70468,75801 230,50056	9,98357,23584,5364 2,12560,9729	10,55232,39478 29,15522	20:24

GRAD. 74.

15. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	27009,63446,85865	28052,24378	1 03860,13856	9,43151,87067,5872	9,44796,76044	40:12
	16,80419,97763	18,82767	5,08686	27,01147,9729	29,13852	
68	27026,43866,83628	28071,07145	1 03865,22542	9,43178,88215,5601	9,44825,89896	40:48
	16,80337,65039	18,82951	5,09053	26,99336,7934	29,12183	
69	27043,24204,48667	28089,90096	1 03870,31595	9,43205,87552,3535	9,44855,02079	41:24
	16,80255,27197	18,83135	5,09419	26,97527,8641	29,10517	
70	27060,04459,75864	28108,73231	1 03875,41014	9,43232,85080,2176	9,44884,12596	42: 0
	16,80172,84235	18,83320	5,09786	26,95721,1803	29,08853	
71	27076,84632,60099	28127,56551	1 03880,50800	9,43259,80801,3979	9,44913,21449	42:36
	16,80090,36157	18,83505	5,10152	26,93916,7382	29,07191	
72	27093,64722,96256	28146,40056	1 03885,60952	9,43286,74718,1361	9,44942,28640	43:12
	16,80007,82960	18,83691	5,10518	26,92114,5332	29,05532	
73	27110,44730,79216	28165,23747	1 03890,71470	9,43313,66832,6693	9,44971,34172	43:48
	16,79925,24645	18,83875	5,10886	26,90314,5611	29,03875	
74	27127,24656,03861	28184,07622	1 03895,82356	9,43340,57147,2304	9,45000,38047	44:24
	16,79842,61213	18,84061	5,11252	26,88516,8177	29,02220	
75	27144,04498,65074	28202,91683	1 03900,93608	9,43367,45664,0481	9,45029,40267	45: 0
	16,79759,92665	18,84246	5,11619	26,86721,2987	29,00567	
76	27160,84258,57739	28221,75929	1 03906,05227	9,43394,32385,3468	9,45058,40834	45:36
	16,79677,18998	18,84432	5,11986	26,84928,0000	28,98917	
77	27177,63935,76737	28240,60361	1 03911,17213	9,43421,17313,3468	9,45087,39751	46:12
	16,79594,40217	18,84618	5,12352	26,83136,9171	28,97268	
78	27194,43530,16954	28259,44979	1 03916,29565	9,43448,00450,2639	9,45116,37019	46:48
	16,79511,56317	18,84804	5,12720	26,81348,0461	28,95622	
79	27211,23041,73271	28278,29783	1 03921,42285	9,43474,81798,3100	9,45145,32641	47:24
	16,79428,67303	18,84989	5,13088	26,79561,3825	28,93979	
80	27228,02470,40574	28297,14772	1 03926,55373	9,43501,61359,6925	9,45174,26620	48: 0
	16,79345,73173	18,85176	5,13454	26,77776,9223	28,92337	
81	27244,81816,13747	28315,99948	1 03931,68827	9,43528,39136,6148	9,45203,18957	48:36
	16,79262,73926	18,85362	5,13822	26,75994,6614	28,90698	
82	27261,61078,87673	28334,85310	1 03936,82649	9,43555,15131,2762	9,45232,09655	49:12
	16,79179,69564	18,85549	5,14189	26,74214,5954	28,89060	
83	27278,40258,57237	28353,70859	1 03941,96838	9,43581,89345,8716	9,45260,98715	49:48
	16,79096,60088	18,85735	5,14557	26,72436,7202	28,87426	
84	27295,19355,17325	28372,56594	1 03947,11395	9,43608,61782,5918	9,45289,86141	50:24
	16,79013,45497	18,85922	5,14924	26,70661,0317	28,85793	
85	27311,98368,62822	28391,42516	1 03952,26319	9,43635,32443,6235	9,45318,71934	51: 0
	16,78930,25790	18,86109	5,15292	26,68887,5258	28,84162	
86	27328,77298,88612	28410,28625	1 03957,41611	9,43662,01331,1493	9,45347,56096	51:36
	16,78847,00971	18,86297	5,15660	26,67116,1983	28,82534	
87	27345,56145,89583	28429,14922	1 03962,57271	9,43688,68447,3476	9,45376,38630	52:12
	16,78763,71036	18,86483	5,16028	26,65347,0451	28,80908	
88	27362,34909,60619	28448,01405	1 03967,73299	9,43715,33794,3927	9,45405,19538	52:48
	16,78680,35987	18,86670	5,16396	26,63580,0622	28,79283	
89	27379,13589,96606	28466,88075	1 03972,89695	9,43741,97374,4549	9,45433,98821	53:24
	16,78596,95826	18,86859	5,16764	26,61815,2452	28,77662	
90	27395,92186,92432	28485,74934	1 03978,06459	9,43768,59189,7001	9,45462,76483	54: 0
	16,78513,50552	18,87045	5,17132	26,60052,5903	28,76043	
91	27412,70700,42984	28504,61979	1 03983,23591	9,43795,19242,2904	9,45491,52526	54:36
	16,78430,00163	18,87234	5,17500	26,58292,0933	28,74425	
92	27429,49130,43147	28523,49213	1 03988,41091	9,43821,77534,3837	9,45520,26951	55:12
	16,78346,44662	18,87421	5,17868	26,56533,7503	28,72809	
93	27446,27476,87809	28542,36634	1 03993,58959	9,43848,34068,1340	9,45548,99760	55:48
	16,78262,84048	18,87610	5,18237	26,54777,5569	28,71197	
94	27463,05739,71857	28561,24244	1 03998,77196	9,43874,88845,6909	9,45577,70957	56:24
	16,78179,18324	18,87797	5,18606	26,53023,5094	28,69585	
95	27479,83918,90181	28580,12041	1 04003,95802	9,43901,41869,2003	9,45606,40542	57: 0
	16,78095,47485	18,87986	5,18973	26,51271,6036	28,67977	
96	27496,62014,37666	28599,00027	1 04009,14775	9,43927,93140,8039	9,45635,08519	57:36
	16,78011,71536	18,88175	5,19343	26,49521,8354	28,66370	
97	27513,40026,09202	28617,88202	1 04014,34118	9,43954,42662,6393	9,45663,74889	58:12
	16,77927,90475	18,88363	5,19711	26,47774,2010	28,64765	
98	27530,17953,99677	28636,76565	1 04019,53829	9,43980,90436,8403	9,45692,39654	58:48
	16,77844,04303	18,88552	5,20081	26,46028,6962	28,63164	
99	27546,95798,03980	28655,65117	1 04024,73910	9,44007,36465,5365	9,45721,02818	59:24
	16,77760,13019	18,88741	5,20449	26,44285,3171	28,61563	
100	27563,73558,16999	28674,53858	1 04029,94359	9,44033,80750,8536	9,45749,64381	60: 0
	16,77676,16626	18,88929	5,20818	26,42544,0597	28,59965	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	96283,33005,18493 4,71553,69674	3 56477,72340 239,09464	3 70238,25745 230,20264	9,98355,11023,5635 2,12703,6772	10,55203,23956 29,13852	19:48
32	96278,61451,48819 4,71846,97817	3 56238,62876 238,79751	3 70008,05481 229,90530	9,98352,98319,8863 2,12846,3954	10,55174,10104 29,12183	19:12
31	96273,89604,51002 4,72140,24523	3 55999,83125 238,50094	3 69778,14951 229,60853	9,98350,85473,4909 2,12989,1276	10,55144,97921 29,10517	18:36
30	96269,17464,26479 4,72433,49791	3 55761,33031 238,20495	3 69548,54098 229,31231	9,98348,72484,3633 2,13131,8737	10,55115,87404 29,08853	18: 0
29	96264,45030,76688 4,72726,73618	3 55523,12536 237,90951	3 69319,22867 229,01666	9,98346,59352,4896 2,13274,6340	10,55086,78551 29,07191	17:24
28	96259,72304,03070 4,73019,96008	3 55285,21585 237,61465	3 69090,21201 228,72159	9,98344,46077,8556 2,13417,4082	10,55057,71360 29,05532	16:48
27	96254,99284,07062 4,73313,16954	3 55047,60120 237,32035	3 68861,49042 228,42706	9,98342,32660,4474 2,13560,1965	10,55028,65828 29,03875	16:12
26	96250,25970,90108 4,73606,36461	3 54810,28085 237,02659	3 68633,06336 228,13311	9,98340,19100,2509 2,13702,9988	10,54999,61953 29,02220	15:36
25	96245,52364,53647 4,73899,54523	3 54573,25426 236,73342	3 68404,93025 227,83970	9,98338,05397,2521 2,13845,8151	10,54970,59733 29,00567	15: 0
24	96240,78464,99124 4,74192,71143	3 54336,52084 236,44078	3 68177,09055 227,54687	9,98335,91551,4370 2,13988,6456	10,54941,59166 28,98917	14:24
23	96236,04272,27981 4,74485,86318	3 54100,08006 236,14872	3 67949,54368 227,25458	9,98333,77562,7914 2,14131,4901	10,54912,60249 28,97268	13:48
22	96231,29786,41663 4,74779,00047	3 53863,93134 235,85720	3 67722,28910 226,96285	9,98331,63431,3013 2,14274,3487	10,54883,62981 28,95622	13:12
21	96226,55007,41616 4,75072,12331	3 53628,07414 235,56624	3 67495,32625 226,67167	9,98329,49156,9526 2,14417,2213	10,54854,67359 28,93979	12:36
20	96221,79935,29285 4,75365,23166	3 53392,50790 235,27583	3 67268,65458 226,38104	9,98327,34739,7313 2,14560,1082	10,54825,73380 28,92337	12: 0
19	96217,04570,06119 4,75658,32555	3 53157,23207 234,98598	3 67042,27354 226,09098	9,98325,20179,6231 2,14703,0091	10,54796,81043 28,90698	11:24
18	96212,28911,73564 4,75951,40495	3 52922,24609 234,69666	3 66816,18256 225,80145	9,98323,05476,6140 2,14845,9241	10,54767,90345 28,89060	10:48
17	96207,52960,33069 4,76244,46983	3 52687,54943 234,40790	3 66590,38111 225,51247	9,98320,90630,6899 2,14988,8533	10,54739,01285 28,87426	10:12
16	96202,76715,86086 4,76537,52022	3 52453,14153 234,11970	3 66364,86864 225,22405	9,98318,75641,8366 2,15131,7966	10,54710,13859 28,85793	9:36
15	96198,00178,34064 4,76830,55609	3 52219,02183 233,83202	3 66139,64459 224,93616	9,98316,60510,0400 2,15274,7542	10,54681,28066 28,84162	9: 0
14	96193,23347,78455 4,77123,57744	3 51985,18981 233,54490	3 65914,70843 224,64882	9,98314,45235,2858 2,15417,7258	10,54652,43904 28,82534	8:24
13	96188,46224,20711 4,77416,58425	3 51751,64491 233,25832	3 65690,05961 224,36202	9,98312,29817,5600 2,15560,7117	10,54623,61370 28,80908	7:48
12	96183,68807,62286 4,77709,57651	3 51518,38659 232,97228	3 65465,69759 224,07577	9,98310,14256,8483 2,15703,7117	10,54594,80462 28,79283	7:12
11	96178,91098,04635 4,78002,55424	3 51285,41431 232,68678	3 65241,62182 223,79005	9,98307,98553,1366 2,15846,7260	10,54566,01179 28,77662	6:36
10	96174,13095,49211 4,78295,51738	3 51052,72753 232,40182	3 65017,83177 223,50488	9,98305,82706,4106 2,15989,7545	10,54537,23517 28,76043	6: 0
9	96169,34799,97473 4,78588,46598	3 50820,32571 232,11739	3 64794,32689 223,22023	9,98303,66716,6561 2,16132,7972	10,54508,47474 28,74425	5:24
8	96164,56211,50875 4,78881,39998	3 50588,20832 231,83351	3 64571,10666 222,93613	9,98301,50583,8589 2,16275,8541	10,54479,73049 28,72809	4:48
7	96159,77330,10877 4,79174,31940	3 50356,37481 231,55015	3 64348,17053 222,65255	9,98299,34308,0048 2,16418,9253	10,54451,00240 28,71197	4:12
6	96154,98155,78937 4,79467,22422	3 50124,82466 231,26733	3 64125,51798 222,36952	9,98297,17889,0795 2,16562,0107	10,54422,29043 28,69585	3:36
5	96150,18688,56515 4,79760,11444	3 49893,55733 230,98505	3 63903,14846 222,08702	9,98295,01327,0688 2,16705,1105	10,54393,59458 28,67977	3: 0
4	96145,38928,45071 4,80052,99005	3 49662,57228 230,70329	3 63681,06144 221,80504	9,98292,84621,9583 2,16848,2245	10,54364,91481 28,66370	2:24
3	96140,58875,46066 4,80345,85102	3 49431,86899 230,42206	3 63459,25640 221,52359	9,98290,67773,7338 2,16991,3527	10,54336,25111 28,64765	1:48
2	96135,78529,60964 4,80638,69737	3 49201,44693 230,14136	3 63237,73281 221,24267	9,98288,50782,3811 2,17134,4954	10,54307,60346 28,63164	1:12
1	96130,97890,91227 4,80931,52908	3 48971,30557 229,86119	3 63016,49014 220,96229	9,98286,33647,8857 2,17277,6522	10,54278,97182 28,61563	0:36
0	96126,16959,38319 4,81224,34614	3 48741,44438 229,58153	3 62795,52785 220,68241	9,98284,16370,2335 2,17420,8236	10,54250,35619 28,59965	0: 0

GRAD. 74.

16. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	27563,73558,16999 16,77676,16626	28674,53858 18,88929	1 04029,94359 5,20818	9,44033,80750,8536 26,42544,0597	9,45749,64381 28,59965	0: 0
1	27580,51234,33625 16,77592,15121	28693,42787 18,89120	1 04035,15177 5,21187	9,44060,23294,9133 26,40804,9200	9,45778,24346 28,58368	0:36
2	27597,28826,48746 16,77508,08506	28712,31907 18,89308	1 04040,36364 5,21556	9,44086,64099,8333 26,39067,8941	9,45806,82714 28,56776	1:12
3	27614,06334,57252 16,77423,96782	28731,21215 18,89498	1 04045,57920 5,21926	9,44113,03167,7274 26,37332,9778	9,45835,39490 28,55183	1:48
4	27630,83758,54034 16,77339,79947	28750,10713 18,89687	1 04050,79846 5,22295	9,44139,40500,7052 26,35600,1676	9,45863,94673 28,53594	2:24
5	27647,61098,33981 16,77255,58003	28769,00400 18,89878	1 04056,02141 5,22664	9,44165,76100,8728 26,33869,4591	9,45892,48267 28,52006	3: 0
6	27664,38353,91984 16,77171,30950	28787,90278 18,90067	1 04061,24805 5,23034	9,44192,09970,3319 26,32140,8486	9,45921,00273 28,50421	3:36
7	27681,15525,22934 16,77086,98788	28806,80345 18,90257	1 04066,47839 5,23404	9,44218,42111,1805 26,30414,3323	9,45949,50694 28,48838	4:12
8	27697,92612,21722 16,77002,61518	28825,70602 18,90448	1 04071,71243 5,23773	9,44244,72525,5128 26,28689,9060	9,45977,99532 28,47256	4:48
9	27714,69614,83240 16,76918,19138	28844,61050 18,90638	1 04076,95016 5,24143	9,44271,01215,4188 26,26967,5660	9,46006,46788 28,45678	5:24
10	27731,46533,02378 16,76833,71651	28863,51688 18,90828	1 04082,19159 5,24513	9,44297,28182,9848 26,25247,3084	9,46034,92466 28,44101	6: 0
11	27748,23366,74029 16,76749,19055	28882,42516 18,91019	1 04087,43672 5,24883	9,44323,53430,2932 26,23529,1293	9,46063,36567 28,42525	6:36
12	27765,00115,93084 16,76664,61352	28901,33535 18,91210	1 04092,68555 5,25253	9,44349,76959,4225 26,21813,0248	9,46091,79092 28,40954	7:12
13	27781,76780,54436 16,76579,98542	28920,24745 18,91400	1 04097,93808 5,25623	9,44375,98772,4473 26,20098,9909	9,46120,20046 28,39382	7:48
14	27798,53360,52978 16,76495,30625	28939,16145 18,91592	1 04103,19431 5,25993	9,44402,18871,4382 26,18387,0241	9,46148,59428 28,37814	8:24
15	27815,29855,83603 16,76410,57600	28958,07737 18,91783	1 04108,45424 5,26364	9,44428,37258,4623 26,16677,1204	9,46176,97242 28,36247	9: 0
16	27832,06266,41203 16,76325,79469	28976,99520 18,91975	1 04113,71788 5,26734	9,44454,53935,5827 26,14969,2757	9,46205,33489 28,34683	9:36
17	27848,82592,20672 16,76240,96231	28995,91495 18,92165	1 04118,98522 5,27105	9,44480,68904,8584 26,13263,4867	9,46233,68172 28,33120	10:12
18	27865,58833,16903 16,76156,07888	29014,83660 18,92358	1 04124,25627 5,27475	9,44506,82168,3451 26,11559,7490	9,46262,01292 28,31560	10:48
19	27882,34989,24791 16,76071,14438	29033,76018 18,92549	1 04129,53102 5,27846	9,44532,93728,0941 26,09858,0594	9,46290,32852 28,30002	11:24
20	27899,11060,39229 16,75986,15884	29052,68567 18,92742	1 04134,80948 5,28216	9,44559,03586,1535 26,08158,4135	9,46318,62854 28,28446	12: 0
21	27915,87046,55113 16,75901,12222	29071,61309 18,92933	1 04140,09164 5,28588	9,44585,11744,5670 26,06460,8081	9,46346,91300 28,26891	12:36
22	27932,62947,67335 16,75816,03458	29090,54242 18,93125	1 04145,37752 5,28958	9,44611,18205,3751 26,04765,2390	9,46375,18191 28,25340	13:12
23	27949,38763,70793 16,75730,89587	29109,47367 18,93318	1 04150,66710 5,29330	9,44637,22970,6141 26,03071,7026	9,46403,43531 28,23789	13:48
24	27966,14494,60380 16,75645,70612	29128,40685 18,93511	1 04155,96040 5,29700	9,44663,26042,3167 26,01380,1952	9,46431,67320 28,22242	14:24
25	27982,90140,30992 16,75560,46533	29147,34196 18,93703	1 04161,25740 5,30072	9,44689,27422,5119 25,99690,7129	9,46459,89562 28,20695	15: 0
26	27999,65700,77525 16,75475,17350	29166,27899 18,93896	1 04166,55812 5,30443	9,44715,27113,2248 25,98003,2520	9,46488,10257 28,19152	15:36
27	28016,41175,94875 16,75389,83062	29185,21795 18,94089	1 04171,86255 5,30814	9,44741,25116,4768 25,96317,8089	9,46516,29409 28,17609	16:12
28	28033,16565,77937 16,75304,43673	29204,15884 18,94282	1 04177,17069 5,31186	9,44767,21434,2857 25,94634,3798	9,46544,47018 28,16070	16:48
29	28049,91870,21610 16,75218,99178	29223,10166 18,94475	1 04182,48255 5,31558	9,44793,16068,6655 25,92952,9609	9,46572,63088 28,14532	17:24
30	28066,67089,20788 16,75133,49581	29242,04641 18,94669	1 04187,79813 5,31929	9,44819,09021,6264 25,91273,5486	9,46600,77620 28,12997	18: 0
31	28083,42222,70369 16,75047,94882	29260,99310 18,94862	1 04193,11742 5,32300	9,44845,00295,1750 25,89596,1393	9,46628,90617 28,11462	18:36
32	28100,17270,65251 16,74962,35080	29279,94172 18,95055	1 04198,44042 5,32673	9,44870,89891,3143 25,87920,7291	9,46657,02079 28,09931	19:12
33	28116,92233,00331 16,74876,70175	29298,89227 18,95250	1 04203,76715 5,33045	9,44896,77812,0434 25,86247,3144	9,46685,12010 28,08401	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	96126,16959,38319 4,81224,34614	3 48741,44438 229,58153	3 62795,52785 220,68241	9,98284,16370,2335 2,17420,8236	10,54250,35619 28,59965	60: 0
99	96121,35735,03705 4,81517,14853	3 48511,86285 229,30242	3 62574,84544 220,40308	9,98281,98949,4099 2,17564,0090	10,54221,75654 28,58368	59:24
98	96116,54217,88852 4,81809,93626	3 48282,56043 229,02381	3 62354,44236 220,12425	9,98279,81385,4009 2,17707,2090	10,54193,17286 28,56776	58:48
97	96111,72407,95226 4,82102,70932	3 48053,53662 228,74573	3 62134,31811 219,84595	9,98277,63678,1919 2,17850,4233	10,54164,60510 28,55183	58:12
96	96106,90305,24294 4,82395,46769	3 47824,79089 228,46817	3 61914,47216 219,56818	9,98275,45827,7686 2,17993,6519	10,54136,05327 28,53594	57:36
95	96102,07909,77525 4,82688,21135	3 47596,32272 228,19113	3 61694,90398 219,29091	9,98273,27834,1167 2,18136,8950	10,54107,51733 28,52006	57: 0
94	96097,25221,56390 4,82980,94033	3 47368,13159 227,91461	3 61475,61307 219,01417	9,98271,09697,2217 2,18280,1523	10,54078,99727 28,50421	56:24
93	96092,42240,62357 4,83273,65458	3 47140,21698 227,63859	3 61256,59890 218,73795	9,98268,91417,0694 2,18423,4242	10,54050,49306 28,48838	55:48
92	96087,58966,96899 4,83566,35412	3 46912,57839 227,36311	3 61037,86095 218,46223	9,98266,72993,6452 2,18566,7104	10,54022,00468 28,47256	55:12
91	96082,75400,61487 4,83859,03893	3 46685,21528 227,08813	3 60819,39872 218,18703	9,98264,54426,9348 2,18710,0111	10,53993,53212 28,45678	54:36
90	96077,91541,57594 4,84151,70899	3 46458,12715 226,81365	3 60601,21169 217,91235	9,98262,35716,9237 2,18853,3261	10,53965,07534 28,44101	54: 0
89	96073,07389,86695 4,84444,36431	3 46231,31350 226,53971	3 60383,29934 217,63817	9,98260,16863,5976 2,18996,6557	10,53936,63433 28,42525	53:24
88	96068,22945,50264 4,84737,00487	3 46004,77379 226,26625	3 60165,66117 217,36450	9,98257,97866,9419 2,19139,9996	10,53908,20908 28,40954	52:48
87	96063,38208,49777 4,85029,63066	3 45778,50754 225,99332	3 59948,29667 217,09135	9,98255,78726,9423 2,19283,3582	10,53879,79954 28,39382	52:12
86	96058,53178,86711 4,85322,24169	3 45552,51422 225,72089	3 59731,20532 216,81870	9,98253,59443,5841 2,19426,7310	10,53851,40572 28,37814	51:36
85	96053,67856,62542 4,85614,83792	3 45326,79333 225,44897	3 59514,38662 216,54655	9,98251,40016,8531 2,19570,1184	10,53823,02758 28,36247	51: 0
84	96048,82241,78750 4,85907,41937	3 45101,34436 225,17754	3 59297,84007 216,27491	9,98249,20446,7347 2,19713,5204	10,53794,66511 28,34683	50:24
83	96043,96334,36813 4,86199,98601	3 44876,16682 224,90663	3 59081,56516 216,00377	9,98247,00733,2143 2,19856,9368	10,53766,31828 28,33120	49:48
82	96039,10134,38212 4,86492,53784	3 44651,26019 224,63622	3 58865,56139 215,73315	9,98244,80876,2775 2,20000,3678	10,53737,98708 28,31560	49:12
81	96034,23641,84428 4,86785,07485	3 44426,62397 224,36630	3 58649,82824 215,46300	9,98242,60875,9097 2,20143,8132	10,53709,67148 28,30002	48:36
80	96029,36856,76943 4,87077,59704	3 44202,25767 224,09689	3 58434,36524 215,19338	9,98240,40732,0965 2,20287,2733	10,53681,37146 28,28446	48: 0
79	96024,49779,17239 4,87370,10438	3 43978,16078 223,82798	3 58219,17186 214,92424	9,98238,20444,8232 2,20430,7478	10,53653,08700 28,26891	47:24
78	96019,62409,06801 4,87662,59688	3 43754,33280 223,55956	3 58004,24762 214,65560	9,98236,00014,0754 2,20574,2370	10,53624,81809 28,25340	46:48
77	96014,74746,47113 4,87955,07453	3 43530,77324 223,29164	3 57789,59202 214,38745	9,98233,79439,8384 2,20717,7407	10,53596,56469 28,23789	46:12
76	96009,86791,39660 4,88247,53731	3 43307,48160 223,02422	3 57575,20457 214,11982	9,98231,58722,0977 2,20861,2590	10,53568,32680 28,22242	45:36
75	96004,98543,85929 4,88539,98522	3 43084,45738 222,75728	3 57361,08475 213,85265	9,98229,37860,8387 2,21004,7919	10,53540,10438 28,20695	45: 0
74	96000,10003,87407 4,88832,41825	3 42861,70010 222,49084	3 57147,23210 213,58600	9,98227,16856,0468 2,21148,3395	10,53511,89743 28,19152	44:24
73	95995,21171,45582 4,89124,83638	3 42639,20926 222,22490	3 56933,64610 213,31982	9,98224,95707,7073 2,21291,9015	10,53483,70591 28,17609	43:48
72	95990,32046,61944 4,89417,23962	3 42416,98436 221,95944	3 56720,32628 213,05415	9,98222,74415,8058 2,21435,4784	10,53455,52982 28,16070	43:12
71	95985,42629,37982 4,89709,62795	3 42195,02492 221,69446	3 56507,27213 212,78895	9,98220,52980,3274 2,21579,0697	10,53427,36912 28,14532	42:36
70	95980,52919,75187 4,90002,00136	3 41973,33046 221,42999	3 56294,48318 212,52425	9,98218,31401,2577 2,21722,6758	10,53399,22380 28,12997	42: 0
69	95975,62917,75051 4,90294,35984	3 41751,90047 221,16599	3 56081,95893 212,26003	9,98216,09678,5819 2,21866,2965	10,53371,09383 28,11462	41:24
68	95970,72623,39067 4,90586,70340	3 41530,73448 220,90248	3 55869,69890 211,99630	9,98213,87812,2854 2,22009,9320	10,53342,97921 28,09931	40:48
67	95965,82036,68727 4,90879,03199	3 41309,83200 220,63946	3 55657,70260 211,73305	9,98211,65802,3534 2,22153,5820	10,53314,87990 28,08401	40:12

GRAD. 73.

16. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	28116,92233,00331 16,74876,70175	29298,89227 18,95250	1 04203,76715 5,33045	9,44896,77812,0434 25,86247,3144	9,46685,12010 28,08401	19:48
34	28133,67109,70506 16,74791,00169	29317,84477 18,95444	1 04209,09760 5,33416	9,44922,64059,3578 25,84575,8917	9,46713,20411 28,06873	20:24
35	28150,41900,70675 16,74705,25062	29336,79921 18,95637	1 04214,43176 5,33789	9,44948,48635,2495 25,82906,4571	9,46741,27284 28,05347	21: 0
36	28167,16605,95737 16,74619,44851	29355,75558 18,95832	1 04219,76965 5,34161	9,44974,31541,7066 25,81239,0072	9,46769,32631 28,03824	21:36
37	28183,91225,40588 16,74533,59541	29374,71390 18,96027	1 04225,11126 5,34533	9,45000,12780,7138 25,79573,5381	9,46797,36455 28,02302	22:12
38	28200,65759,00129 16,74447,69130	29393,67417 18,96221	1 04230,45659 5,34906	9,45025,92354,2519 25,77910,0463	9,46825,38757 28,00782	22:48
39	28217,40206,69259 16,74361,73617	29412,63638 18,96415	1 04235,80565 5,35278	9,45051,70264,2982 25,76248,5282	9,46853,39539 27,99264	23:24
40	28234,14568,42876 16,74275,73005	29431,60053 18,96611	1 04241,15843 5,35650	9,45077,46512,8264 25,74588,9802	9,46881,38803 27,97749	24: 0
41	28250,88844,15881 16,74189,67292	29450,56664 18,96805	1 04246,51493 5,36023	9,45103,21101,8066 25,72931,3987	9,46909,36552 27,96234	24:36
42	28267,63033,83173 16,74103,56480	29469,53469 18,97001	1 04251,87516 5,36396	9,45128,94033,2053 25,71275,7800	9,46937,32786 27,94723	25:12
43	28284,37137,39653 16,74017,40567	29488,50470 18,97196	1 04257,23912 5,36769	9,45154,65308,9853 25,69622,1206	9,46965,27509 27,93213	25:48
44	28301,11154,80220 16,73931,19556	29507,47666 18,97391	1 04262,60681 5,37142	9,45180,34931,1059 25,67970,4169	9,46993,20722 27,91705	26:24
45	28317,85085,99776 16,73844,93445	29526,45057 18,97587	1 04267,97823 5,37514	9,45206,02901,5228 25,66320,6653	9,47021,12427 27,90199	27: 0
46	28334,58930,93221 16,73758,62236	29545,42644 18,97782	1 04273,35337 5,37888	9,45231,69222,1881 25,64672,8624	9,47049,02626 27,88696	27:36
47	28351,32689,55457 16,73672,25927	29564,40426 18,97979	1 04278,73225 5,38261	9,45257,33895,0505 25,63027,0045	9,47076,91322 27,87193	28:12
48	28368,06361,81384 16,73585,84522	29583,38405 18,98174	1 04284,11486 5,38634	9,45282,96922,0550 25,61383,0880	9,47104,78515 27,85693	28:48
49	28384,79947,65906 16,73499,38017	29602,36579 18,98371	1 04289,50120 5,39007	9,45308,58305,1430 25,59741,1095	9,47132,64208 27,84195	29:24
50	28401,53447,03923 16,73412,86414	29621,34950 18,98566	1 04294,89127 5,39381	9,45334,18046,2525 25,58101,0655	9,47160,48403 27,82699	30: 0
51	28418,26859,90337 16,73326,29716	29640,33516 18,98764	1 04300,28508 5,39755	9,45359,76147,3180 25,56462,9523	9,47188,31102 27,81205	30:36
52	28435,00186,20053 16,73239,67918	29659,32280 18,98960	1 04305,68263 5,40128	9,45385,32610,2703 25,54826,7666	9,47216,12307 27,79712	31:12
53	28451,73425,87971 16,73153,01024	29678,31240 18,99156	1 04311,08391 5,40502	9,45410,87437,0369 25,53192,5048	9,47243,92019 27,78223	31:48
54	28468,46578,88995 16,73066,29034	29697,30396 18,99354	1 04316,48893 5,40876	9,45436,40629,5417 25,51560,1633	9,47271,70242 27,76733	32:24
55	28485,19645,18029 16,72979,51947	29716,29750 18,99550	1 04321,89769 5,41249	9,45461,92189,7050 25,49929,7389	9,47299,46975 27,75248	33: 0
56	28501,92624,69976 16,72892,69764	29735,29300 18,99748	1 04327,31018 5,41624	9,45487,42119,4439 25,48301,2279	9,47327,22223 27,73763	33:36
57	28518,65517,39740 16,72805,82484	29754,29048 18,99945	1 04332,72642 5,41998	9,45512,90420,6718 25,46674,6268	9,47354,95986 27,72280	34:12
58	28535,38323,22224 16,72718,90110	29773,28993 19,00143	1 04338,14640 5,42371	9,45538,37095,2986 25,45049,9324	9,47382,68266 27,70799	34:48
59	28552,11042,12334 16,72631,92640	29792,29136 19,00340	1 04343,57011 5,42747	9,45563,82145,2310 25,43427,1410	9,47410,39065 27,69321	35:24
60	28568,83674,04974 16,72544,90074	29811,29476 19,00538	1 04348,99758 5,43120	9,45589,25572,3720 25,41806,2493	9,47438,08386 27,67844	36: 0
61	28585,56218,95048 16,72457,82414	29830,30014 19,00735	1 04354,42878 5,43495	9,45614,67378,6213 25,40187,2537	9,47465,76230 27,66369	36:36
62	28602,28676,77462 16,72370,69659	29849,30749 19,00934	1 04359,86373 5,43870	9,45640,07565,8750 25,38570,1510	9,47493,42599 27,64896	37:12
63	28619,01047,47121 16,72283,51810	29868,31683 19,01132	1 04365,30243 5,44244	9,45665,46136,0260 25,36954,9376	9,47521,07495 27,63425	37:48
64	28635,73330,98931 16,72196,28867	29887,32815 19,01331	1 04370,74487 5,44619	9,45690,83090,9636 25,35341,6103	9,47548,70920 27,61956	38:24
65	28652,45527,27798 16,72109,00830	29906,34146 19,01529	1 04376,19106 5,44993	9,45716,18432,5739 25,33730,1655	9,47576,32876 27,60488	39: 0
66	28669,17636,28628 16,72021,67700	29925,35675 19,01727	1 04381,64099 5,45369	9,45741,52162,7394 25,32120,5998	9,47603,93364 27,59023	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	95965,82036,68727 4,90879,03199	3 41309,83200 220,63946	3 55657,70260 211,73305	9,98211,65802,3534 2,22153,5820	10,53314,87990 28,08401	40:12
66	95960,91157,65528 4,91171,34565	3 41089,19254 220,37691	3 55445,96955 211,47029	9,98209,43648,7714 2,22297,2468	10,53286,79589 28,06873	39:36
65	95955,99986,30963 4,91463,64434	3 40868,81563 220,11486	3 55234,49926 211,20800	9,98207,21351,5246 2,22440,9263	10,53258,72716 28,05347	39: 0
64	95951,08522,66529 4,91755,92806	3 40648,70077 219,85327	3 55023,29126 210,94619	9,98204,98910,5983 2,22584,6204	10,53230,67369 28,03824	38:24
63	95946,16766,73723 4,92048,19680	3 40428,84750 219,59217	3 54812,34507 210,68488	9,98202,76325,9779 2,22728,3295	10,53202,63545 28,02302	37:48
62	95941,24718,54043 4,92340,45055	3 40209,25533 219,33155	3 54601,66019 210,42402	9,98200,53597,6484 2,22872,0531	10,53174,61243 28,00782	37:12
61	95936,32378,08988 4,92632,68930	3 39989,92378 219,07140	3 54391,23617 210,16366	9,98198,30725,5953 2,23015,7915	10,53146,60461 27,99264	36:36
60	95931,39745,40058 4,92924,91306	3 39770,85238 218,81173	3 54181,07251 209,90376	9,98196,07709,8038 2,23159,5448	10,53118,61197 27,97749	36: 0
59	95926,46820,48752 4,93217,12178	3 39552,04065 218,55254	3 53971,16875 209,64434	9,98193,84550,2590 2,23303,3127	10,53090,63448 27,96234	35:24
58	95921,53603,36574 4,93509,31549	3 39333,48811 218,29381	3 53761,52441 209,38539	9,98191,61246,9463 2,23447,0955	10,53062,67214 27,94723	34:48
57	95916,60094,05025 4,93801,49416	3 39115,19430 218,03557	3 53552,13902 209,12693	9,98189,37799,8508 2,23590,8930	10,53034,72491 27,93213	34:12
56	95911,66292,55609 4,94093,65779	3 38897,15873 217,77779	3 53343,01209 208,86891	9,98187,14208,9578 2,23734,7053	10,53006,79278 27,91705	33:36
55	95906,72198,89830 4,94385,80638	3 38679,38094 217,52048	3 53134,14318 208,61139	9,98184,90474,2525 2,23878,5326	10,52978,87573 27,90199	33: 0
54	95901,77813,09192 4,94677,93990	3 38461,86046 217,26364	3 52925,53179 208,35432	9,98182,66595,7199 2,24022,3746	10,52950,97374 27,88696	32:24
53	95896,83135,15202 4,94970,05835	3 38244,59682 217,00727	3 52717,17747 208,09773	9,98180,42573,3453 2,24166,2314	10,52923,08678 27,87193	31:48
52	95891,88165,09367 4,95262,16173	3 38027,58955 216,75136	3 52509,07974 207,84160	9,98178,18407,1139 2,24310,1031	10,52895,21485 27,85693	31:12
51	95886,92902,93194 4,95554,25001	3 37810,83819 216,49593	3 52301,23814 207,58593	9,98175,94097,0108 2,24453,9896	10,52867,35792 27,84195	30:36
50	95881,97348,68193 4,95846,32321	3 37594,34226 216,24095	3 52093,65221 207,33074	9,98173,69643,0212 2,24597,8911	10,52839,51597 27,82699	30: 0
49	95877,01502,35872 4,96138,38129	3 37378,10131 215,98645	3 51886,32147 207,07599	9,98171,45045,1301 2,24741,8074	10,52811,68898 27,81205	29:24
48	95872,05363,97743 4,96430,42427	3 37162,11486 215,73239	3 51679,24548 206,82172	9,98169,20303,3227 2,24885,7387	10,52783,87693 27,79712	28:48
47	95867,08933,55316 4,96722,45213	3 36946,38247 215,47880	3 51472,42376 206,56791	9,98166,95417,5840 2,25029,6847	10,52756,07981 27,78223	28:12
46	95862,12211,10103 4,97014,46484	3 36730,90367 215,22568	3 51265,85585 206,31456	9,98164,70387,8993 2,25173,6458	10,52728,29758 27,76733	27:36
45	95857,15196,63619 4,97306,46243	3 36515,67799 214,97301	3 51059,54129 206,06166	9,98162,45214,2535 2,25317,6217	10,52700,53025 27,75248	27: 0
44	95852,17890,17376 4,97598,44486	3 36300,70498 214,72080	3 50853,47963 205,80922	9,98160,19896,6318 2,25461,6127	10,52672,77777 27,73763	26:24
43	95847,20291,72890 4,97890,41214	3 36085,98418 214,46904	3 50647,67041 205,55724	9,98157,94435,0191 2,25605,6185	10,52645,04014 27,72280	25:48
42	95842,22401,31676 4,98182,36425	3 35871,51514 214,21774	3 50442,11317 205,30572	9,98155,68829,4006 2,25749,6394	10,52617,31734 27,70799	25:12
41	95837,24218,95251 4,98474,30118	3 35657,29740 213,96690	3 50236,80745 205,05464	9,98153,43079,7612 2,25893,6751	10,52589,60935 27,69321	24:36
40	95832,25744,65133 4,98766,22293	3 35443,33050 213,71651	3 50031,75281 204,80403	9,98151,17186,0861 2,26037,7259	10,52561,91614 27,67844	24: 0
39	95827,26978,42840 4,99058,12948	3 35229,61399 213,46657	3 49826,94878 204,55386	9,98148,91148,3602 2,26181,7917	10,52534,23770 27,66369	23:24
38	95822,27920,29892 4,99350,02084	3 35016,14742 213,21708	3 49622,39492 204,30414	9,98146,64966,5685 2,26325,8725	10,52506,57401 27,64896	22:48
37	95817,28570,27808 4,99641,89698	3 34802,93034 212,96805	3 49418,09078 204,05488	9,98144,38640,6960 2,26469,9683	10,52478,92505 27,63425	22:12
36	95812,28928,38110 4,99933,75791	3 34589,96229 212,71945	3 49214,03590 203,80607	9,98142,12170,7277 2,26614,0791	10,52451,29080 27,61956	21:36
35	95807,28994,62319 5,00225,60360	3 34377,24284 212,47132	3 49010,22983 203,55769	9,98139,85556,6486 2,26758,2049	10,52423,67124 27,60488	21: 0
34	95802,28769,01959 5,00517,43405	3 34164,77152 212,22362	3 48806,67214 203,30978	9,98137,58798,4437 2,26902,3459	10,52396,06636 27,59023	20:24

GRAD. 73.

16. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	28685,89657,96328	29944,37402	1 04387,09468	9,45766,84283,3392	9,47631,52387	40:12
	16,71934,29476	19,01927	5,45744	25,30512,9100	27,57560	
68	28702,61592,25804	29963,39329	1 04392,55212	9,45792,14796,2492	9,47659,09947	40:48
	16,71846,86159	19,02125	5,46118	25,28907,0926	27,56097	
69	28719,33439,11963	29982,41454	1 04398,01330	9,45817,43703,3418	9,47686,66044	41:24
	16,71759,37749	19,02324	5,46494	25,27303,1442	27,54638	
70	28736,05198,49712	30001,43778	1 04403,47824	9,45842,71006,4860	9,47714,20682	42: 0
	16,71671,84247	19,02524	5,46869	25,25701,0616	27,53181	
71	28752,76870,33959	30020,46302	1 04408,94693	9,45867,96707,5476	9,47741,73863	42:36
	16,71584,25654	19,02723	5,47245	25,24100,8412	27,51724	
72	28769,48454,59613	30039,49025	1 04414,41938	9,45893,20808,3888	9,47769,25587	43:12
	16,71496,61967	19,02922	5,47620	25,22502,4799	27,50270	
73	28786,19951,21580	30058,51947	1 04419,89558	9,45918,43310,8687	9,47796,75857	43:48
	16,71408,93189	19,03122	5,47996	25,20905,9743	27,48817	
74	28802,91360,14769	30077,55069	1 04425,37554	9,45943,64216,8430	9,47824,24674	44:24
	16,71321,19320	19,03322	5,48371	25,19311,3210	27,47368	
75	28819,62681,34089	30096,58391	1 04430,85925	9,45968,83528,1640	9,47851,72042	45: 0
	16,71233,40360	19,03522	5,48747	25,17718,5166	27,45919	
76	28836,33914,74449	30115,61913	1 04436,34672	9,45994,01246,6806	9,47879,17961	45:36
	16,71145,56309	19,03722	5,49123	25,16127,5581	27,44472	
77	28853,05060,30758	30134,65635	1 04441,83795	9,46019,17374,2387	9,47906,62433	46:12
	16,71057,67166	19,03923	5,49498	25,14538,4420	27,43027	
78	28869,76117,97924	30153,69558	1 04447,33293	9,46044,31912,6807	9,47934,05460	46:48
	16,70969,72935	19,04122	5,49875	25,12951,1648	27,41584	
79	28886,47087,70859	30172,73680	1 04452,83168	9,46069,44863,8455	9,47961,47044	47:24
	16,70881,73613	19,04324	5,50251	25,11365,7237	27,40144	
80	28903,17969,44472	30191,78004	1 04458,33419	9,46094,56229,5692	9,47988,87188	48: 0
	16,70793,69200	19,04524	5,50627	25,09782,1149	27,38704	
81	28919,88763,13672	30210,82528	1 04463,84046	9,46119,66011,6841	9,48016,25892	48:36
	16,70705,59699	19,04725	5,51004	25,08200,3356	27,37266	
82	28936,59468,73371	30229,87253	1 04469,35050	9,46144,74212,0197	9,48043,63158	49:12
	16,70617,45108	19,04925	5,51379	25,06620,3821	27,35831	
83	28953,30086,18479	30248,92178	1 04474,86429	9,46169,80832,4018	9,48070,98989	49:48
	16,70529,25428	19,05127	5,51757	25,05042,2515	27,34398	
84	28970,00615,43907	30267,97305	1 04480,38186	9,46194,85874,6533	9,48098,33387	50:24
	16,70441,00660	19,05329	5,52132	25,03465,9404	27,32965	
85	28986,71056,44567	30287,02634	1 04485,90318	9,46219,89340,5937	9,48125,66352	51: 0
	16,70352,70803	19,05529	5,52510	25,01891,4454	27,31535	
86	29003,41409,15370	30306,08163	1 04491,42828	9,46244,91232,0391	9,48152,97887	51:36
	16,70264,35858	19,05732	5,52886	25,00318,7636	27,30107	
87	29020,11673,51228	30325,13895	1 04496,95714	9,46269,91550,8027	9,48180,27994	52:12
	16,70175,95825	19,05933	5,53263	24,98747,8916	27,28681	
88	29036,81849,47053	30344,19828	1 04502,48977	9,46294,90298,6943	9,48207,56675	52:48
	16,70087,50704	19,06135	5,53641	24,97178,8261	27,27256	
89	29053,51936,97757	30363,25963	1 04508,02618	9,46319,87477,5204	9,48234,83931	53:24
	16,69999,00495	19,06337	5,54017	24,95611,5641	27,25834	
90	29070,21935,98252	30382,32300	1 04513,56635	9,46344,83089,0845	9,48262,09765	54: 0
	16,69910,45201	19,06539	5,54394	24,94046,1021	27,24412	
91	29086,91846,43453	30401,38839	1 04519,11029	9,46369,77135,1866	9,48289,34177	54:36
	16,69821,84819	19,06742	5,54772	24,92482,4372	27,22993	
92	29103,61668,28272	30420,45581	1 04524,65801	9,46394,69617,6238	9,48316,57170	55:12
	16,69733,19350	19,06944	5,55149	24,90920,5661	27,21576	
93	29120,31401,47622	30439,52525	1 04530,20950	9,46419,60538,1899	9,48343,78746	55:48
	16,69644,48795	19,07146	5,55526	24,89360,4856	27,20160	
94	29137,01045,96417	30458,59671	1 04535,76476	9,46444,49898,6755	9,48370,98906	56:24
	16,69555,73154	19,07350	5,55904	24,87802,1925	27,18747	
95	29153,70601,69571	30477,67021	1 04541,32380	9,46469,37700,8680	9,48398,17653	57: 0
	16,69466,92428	19,07552	5,56281	24,86245,6837	27,17335	
96	29170,40068,61999	30496,74573	1 04546,88661	9,46494,23946,5517	9,48425,34988	57:36
	16,69378,06615	19,07755	5,56659	24,84690,9561	27,15924	
97	29187,09446,68614	30515,82328	1 04552,45320	9,46519,08637,5078	9,48452,50912	58:12
	16,69289,15718	19,07959	5,57037	24,83138,0063	27,14517	
98	29203,78735,84332	30534,90287	1 04558,02357	9,46543,91775,5141	9,48479,65429	58:48
	16,69200,19736	19,08162	5,57415	24,81586,8314	27,13109	
99	29220,47936,04068	30553,98449	1 04563,59772	9,46568,73362,3455	9,48506,78538	59:24
	16,69111,18669	19,08366	5,57793	24,80037,4282	27,11705	
100	29237,17047,22737	30573,06815	1 04569,17565	9,46593,53399,7737	9,48533,90243	60: 0
	16,69022,12517	19,08569	5,58171	24,78489,7937	27,10302	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	95797,28251,58554 5,00809,24927	3 33952,54790 211,97637	3 48603,36236 203,06230	9,98135,31896,0978 2,27046,5019	10,52368,47613 27,57560	19:48
32	95792,27442,33627 5,01101,04921	3 33740,57153 211,72957	3 48400,30006 202,81527	9,98133,04849,5959 2,27190,6729	10,52340,90053 27,56097	19:12
31	95787,26341,28706 5,01392,83391	3 33528,84196 211,48321	3 48197,48479 202,56867	9,98130,77658,9230 2,27334,8591	10,52313,33956 27,54638	18:36
30	95782,24948,45315 5,01684,60332	3 33317,35875 211,23730	3 47994,91612 202,32254	9,98128,50324,0639 2,27479,0603	10,52285,79318 27,53181	18: 0
29	95777,23263,84983 5,01976,35746	3 33106,12145 210,99181	3 47792,59358 202,07683	9,98126,22845,0036 2,27623,2766	10,52258,26137 27,51724	17:24
28	95772,21287,49237 5,02268,09630	3 32895,12964 210,74679	3 47590,51675 201,83157	9,98123,95221,7270 2,27767,5081	10,52230,74413 27,50270	16:48
27	95767,19019,39607 5,02559,81985	3 32684,38285 210,50218	3 47388,68518 201,58674	9,98121,67454,2189 2,27911,7547	10,52203,24143 27,48817	16:12
26	95762,16459,57622 5,02851,52808	3 32473,88067 210,25803	3 47187,09844 201,34235	9,98119,39542,4642 2,28056,0165	10,52175,75326 27,47368	15:36
25	95757,13608,04814 5,03143,22099	3 32263,62264 210,01431	3 46985,75609 201,09841	9,98117,11486,4477 2,28200,2933	10,52148,27958 27,45919	15: 0
24	95752,10464,82715 5,03434,89858	3 32053,60833 209,77103	3 46784,65768 200,85489	9,98114,83286,1544 2,28344,5854	10,52120,82039 27,44472	14:24
23	95747,07029,92857 5,03726,56084	3 31843,83730 209,52818	3 46583,80279 200,61182	9,98112,54941,5690 2,28488,8925	10,52093,37567 27,43027	13:48
22	95742,03303,36773 5,04018,20775	3 31634,30912 209,28576	3 46383,19097 200,36917	9,98110,26452,6765 2,28633,2150	10,52065,94540 27,41584	13:12
21	95736,99285,15998 5,04309,83931	3 31425,02336 209,04379	3 46182,82180 200,12696	9,98107,97819,4615 2,28777,5526	10,52038,52956 27,40144	12:36
20	95731,94975,32067 5,04601,45550	3 31215,97957 208,80223	3 45982,69484 199,88519	9,98105,69041,9089 2,28921,9054	10,52011,12812 27,38704	12: 0
19	95726,90373,86517 5,04893,05632	3 31007,17734 208,56112	3 45782,80965 199,64383	9,98103,40120,0035 2,29066,2734	10,51983,74108 27,37266	11:24
18	95721,85480,80885 5,05184,64177	3 30798,61622 208,32042	3 45583,16582 199,40292	9,98101,11053,7301 2,29210,6567	10,51956,36842 27,35831	10:48
17	95716,80296,16708 5,05476,21182	3 30590,29580 208,08018	3 45383,76290 199,16243	9,98098,81843,0734 2,29355,0552	10,51929,01011 27,34398	10:12
16	95711,74819,95526 5,05767,76648	3 30382,21562 207,84033	3 45184,60047 198,92237	9,98096,52488,0182 2,29499,4690	10,51901,66613 27,32965	9:36
15	95706,69052,18878 5,06059,30573	3 30174,37529 207,60094	3 44985,67810 198,68273	9,98094,22988,5492 2,29643,8979	10,51874,33648 27,31535	9: 0
14	95701,62992,88305 5,06350,82956	3 29966,77435 207,36196	3 44786,99537 198,44353	9,98091,93344,6513 2,29788,3422	10,51847,02113 27,30107	8:24
13	95696,56642,05349 5,06642,33798	3 29759,41239 207,12341	3 44588,55184 198,20474	9,98089,63556,3091 2,29932,8019	10,51819,72006 27,28681	7:48
12	95691,49999,71551 5,06933,83095	3 29552,28898 206,88528	3 44390,34710 197,96639	9,98087,33623,5072 2,30077,2767	10,51792,43325 27,27256	7:12
11	95686,43065,88456 5,07225,30849	3 29345,40370 206,64757	3 44192,38071 197,72844	9,98085,03546,2305 2,30221,7668	10,51765,16069 27,25834	6:36
10	95681,35840,57607 5,07516,77057	3 29138,75613 206,41029	3 43994,65227 197,49094	9,98082,73324,4637 2,30366,2724	10,51737,90235 27,24412	6: 0
9	95676,28323,80550 5,07808,21720	3 28932,34584 206,17342	3 43797,16133 197,25383	9,98080,42958,1913 2,30510,7932	10,51710,65823 27,22993	5:24
8	95671,20515,58830 5,08099,64835	3 28726,17242 205,93699	3 43599,90750 197,01717	9,98078,12447,3981 2,30655,3294	10,51683,42830 27,21576	4:48
7	95666,12415,93995 5,08391,06403	3 28520,23543 205,70096	3 43402,89033 196,78091	9,98075,81792,0687 2,30799,8809	10,51656,21254 27,20160	4:12
6	95661,04024,87592 5,08682,46422	3 28314,53447 205,46536	3 43206,10942 196,54507	9,98073,50992,1878 2,30944,4479	10,51629,01094 27,18747	3:36
5	95655,95342,41170 5,08973,84892	3 28109,06911 205,23017	3 43009,56435 196,30965	9,98071,20047,7399 2,31089,0300	10,51601,82347 27,17335	3: 0
4	95650,86368,56278 5,09265,21811	3 27903,83894 204,99539	3 42813,25470 196,07465	9,98068,88958,7099 2,31233,6278	10,51574,65012 27,15924	2:24
3	95645,77103,34467 5,09556,57179	3 27698,84355 204,76104	3 42617,18005 195,84006	9,98066,57725,0821 2,31378,2408	10,51547,49088 27,14517	1:48
2	95640,67546,77288 5,09847,90995	3 27494,08251 204,52710	3 42421,33999 195,60589	9,98064,26346,8413 2,31522,8692	10,51520,34571 27,13109	1:12
1	95635,57698,86293 5,10139,23258	3 27289,55541 204,29356	3 42225,73410 195,37212	9,98061,94823,9721 2,31667,5132	10,51493,21462 27,11705	0:36
0	95630,47559,63035 5,10430,53966	3 27085,26185 204,06045	3 42030,36198 195,13877	9,98059,63156,4589 2,31812,1725	10,51466,09757 27,10302	0: 0

GRAD. 73.

17. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	29237,17047,22737 16,69022,12517	30573,06815 19,08569	1 04569,17565 5,58171	9,46593,53399,7737 24,78489,7937	9,48533,90243 27,10302	0: 0
1	29253,86069,35254 16,68933,01282	30592,15384 19,08773	1 04574,75736 5,58549	9,46618,31889,5674 24,76943,9244	9,48561,00545 27,08901	0:36
2	29270,55002,36536 16,68843,84962	30611,24157 19,08977	1 04580,34285 5,58927	9,46643,08833,4918 24,75399,8175	9,48588,09446 27,07501	1:12
3	29287,23846,21498 16,68754,63559	30630,33134 19,09181	1 04585,93212 5,59306	9,46667,84233,3093 24,73857,4699	9,48615,16947 27,06104	1:48
4	29303,92600,85057 16,68665,37073	30649,42315 19,09385	1 04591,52518 5,59684	9,46692,58090,7792 24,72316,8785	9,48642,23051 27,04708	2:24
5	29320,61266,22130 16,68576,05504	30668,51700 19,09590	1 04597,12202 5,60063	9,46717,30407,6577 24,70778,0399	9,48669,27759 27,03314	3: 0
6	29337,29842,27634 16,68486,68852	30687,61290 19,09795	1 04602,72265 5,60441	9,46742,01185,6976 24,69240,9514	9,48696,31073 27,01921	3:36
7	29353,98328,96486 16,68397,27117	30706,71085 19,09999	1 04608,32706 5,60820	9,46766,70426,6490 24,67705,6097	9,48723,32994 27,00531	4:12
8	29370,66726,23603 16,68307,80300	30725,81084 19,10204	1 04613,93526 5,61199	9,46791,38132,2587 24,66172,0119	9,48750,33525 26,99142	4:48
9	29387,35034,03903 16,68218,28401	30744,91288 19,10409	1 04619,54725 5,61578	9,46816,04304,2706 24,64640,1548	9,48777,32667 26,97755	5:24
10	29404,03252,32304 16,68128,71421	30764,01697 19,10614	1 04625,16303 5,61957	9,46840,68944,4254 24,63110,0353	9,48804,30422 26,96370	6: 0
11	29420,71381,03725 16,68039,09359	30783,12311 19,10819	1 04630,78260 5,62336	9,46865,32054,4607 24,61581,6506	9,48831,26792 26,94986	6:36
12	29437,39420,13084 16,67949,42215	30802,23130 19,11025	1 04636,40596 5,62716	9,46889,93636,1113 24,60054,9973	9,48858,21778 26,93604	7:12
13	29454,07369,55299 16,67859,69992	30821,34155 19,11231	1 04642,03312 5,63094	9,46914,53691,1086 24,58530,0727	9,48885,15382 26,92224	7:48
14	29470,75229,25291 16,67769,92688	30840,45386 19,11436	1 04647,66406 5,63474	9,46939,12221,1813 24,57006,8737	9,48912,07606 26,90846	8:24
15	29487,42999,17979 16,67680,10302	30859,56822 19,11642	1 04653,29880 5,63854	9,46963,69228,0550 24,55485,3970	9,48938,98452 26,89469	9: 0
16	29504,10679,28281 16,67590,22838	30878,68464 19,11848	1 04658,93734 5,64233	9,46988,24713,4520 24,53965,6400	9,48965,87921 26,88095	9:36
17	29520,78269,51119 16,67500,30293	30897,80312 19,12055	1 04664,57967 5,64613	9,47012,78679,0920 24,52447,5993	9,48992,76016 26,86721	10:12
18	29537,45769,81412 16,67410,32669	30916,92367 19,12261	1 04670,22580 5,64993	9,47037,31126,6913 24,50931,2723	9,49019,62737 26,85350	10:48
19	29554,13180,14081 16,67320,29966	30936,04628 19,12467	1 04675,87573 5,65372	9,47061,82057,9636 24,49416,6558	9,49046,48087 26,83980	11:24
20	29570,80500,44047 16,67230,22183	30955,17095 19,12674	1 04681,52945 5,65753	9,47086,31474,6194 24,47903,7466	9,49073,32067 26,82613	12: 0
21	29587,47730,66230 16,67140,09322	30974,29769 19,12881	1 04687,18698 5,66132	9,47110,79378,3660 24,46392,5421	9,49100,14680 26,81246	12:36
22	29604,14870,75552 16,67049,91383	30993,42650 19,13088	1 04692,84830 5,66513	9,47135,25770,9081 24,44883,0392	9,49126,95926 26,79882	13:12
23	29620,81920,66935 16,66959,68366	31012,55738 19,13294	1 04698,51343 5,66893	9,47159,70653,9473 24,43375,2349	9,49153,75808 26,78518	13:48
24	29637,48880,35301 16,66869,40270	31031,69032 19,13503	1 04704,18236 5,67274	9,47184,14029,1822 24,41869,1262	9,49180,54326 26,77158	14:24
25	29654,15749,75571 16,66779,07097	31050,82535 19,13709	1 04709,85510 5,67654	9,47208,55898,3084 24,40364,7102	9,49207,31484 26,75799	15: 0
26	29670,82528,82668 16,66688,68847	31069,96244 19,13917	1 04715,53164 5,68034	9,47232,96263,0186 24,38861,9840	9,49234,07283 26,74440	15:36
27	29687,49217,51515 16,66598,25520	31089,10161 19,14125	1 04721,21198 5,68415	9,47257,35125,0026 24,37360,9446	9,49260,81723 26,73085	16:12
28	29704,15815,77035 16,66507,77116	31108,24286 19,14333	1 04726,89613 5,68796	9,47281,72485,9472 24,35861,5891	9,49287,54808 26,71731	16:48
29	29720,82323,54151 16,66417,23635	31127,38619 19,14541	1 04732,58409 5,69177	9,47306,08347,5363 24,34363,9145	9,49314,26539 26,70378	17:24
30	29737,48740,77786 16,66326,65079	31146,53160 19,14748	1 04738,27586 5,69558	9,47330,42711,4508 24,32867,9181	9,49340,96917 26,69027	18: 0
31	29754,15067,42865 16,66236,01446	31165,67908 19,14958	1 04743,97144 5,69939	9,47354,75579,3689 24,31373,5967	9,49367,65944 26,67678	18:36
32	29770,81303,44311 16,66145,32737	31184,82866 19,15165	1 04749,67083 5,70320	9,47379,06952,9656 24,29880,9475	9,49394,33622 26,66330	19:12
33	29787,47448,77048 16,66054,58955	31203,98031 19,15375	1 04755,37403 5,70701	9,47403,36833,9131 24,28389,9679	9,49420,99952 26,64985	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	95630,47559,63035 5,10430,53966	3 27085,26185 204,06045	3 42030,36198 195,13877	9,98059,63156,4589 2,31812,1725	10,51466,09757 27,10302	60: 0
99	95625,37129,09069 5,10721,83119	3 26881,20140 203,82774	3 41835,22321 194,90583	9,98057,31344,2864 2,31956,8472	10,51438,99455 27,08901	59:24
98	95620,26407,25950 5,11013,10718	3 26677,37366 203,59545	3 41640,31738 194,67330	9,98054,99387,4392 2,32101,5374	10,51411,90554 27,07501	58:48
97	95615,15394,15232 5,11304,36760	3 26473,77821 203,36356	3 41445,64408 194,44118	9,98052,67285,9018 2,32246,2432	10,51384,83053 27,06104	58:12
96	95610,04089,78472 5,11595,61243	3 26270,41465 203,13208	3 41251,20290 194,20947	9,98050,35039,6586 2,32390,9643	10,51357,76949 27,04708	57:36
95	95604,92494,17229 5,11886,84169	3 26067,28257 202,90100	3 41056,99343 193,97817	9,98048,02648,6943 2,32535,7009	10,51330,72241 27,03314	57: 0
94	95599,80607,33060 5,12178,05534	3 25864,38157 202,67035	3 40863,01526 193,74727	9,98045,70112,9934 2,32680,4531	10,51303,68927 27,01921	56:24
93	95594,68429,27526 5,12469,25341	3 25661,71122 202,44008	3 40669,26799 193,51677	9,98043,37432,5403 2,32825,2208	10,51276,67006 27,00531	55:48
92	95589,55960,02185 5,12760,43586	3 25459,27114 202,21023	3 40475,75122 193,28668	9,98041,04607,3195 2,32970,0039	10,51249,66475 26,99142	55:12
91	95584,43199,58599 5,13051,60269	3 25257,06091 201,98078	3 40282,46454 193,05700	9,98038,71637,3156 2,33114,8027	10,51222,67333 26,97755	54:36
90	95579,30147,98330 5,13342,75389	3 25055,08013 201,75173	3 40089,40754 192,82772	9,98036,38522,5129 2,33259,6169	10,51195,69578 26,96370	54: 0
89	95574,16805,22941 5,13633,88945	3 24853,32840 201,52308	3 39896,57982 192,59884	9,98034,05262,8960 2,33404,4468	10,51168,73208 26,94986	53:24
88	95569,03171,33996 5,13925,00937	3 24651,80532 201,29484	3 39703,98098 192,37035	9,98031,71858,4492 2,33549,2921	10,51141,78222 26,93604	52:48
87	95563,89246,33059 5,14216,11364	3 24450,51048 201,06699	3 39511,61063 192,14227	9,98029,38309,1571 2,33694,1532	10,51114,84618 26,92224	52:12
86	95558,75030,21695 5,14507,20223	3 24249,44349 200,83954	3 39319,46836 191,91459	9,98027,04615,0039 2,33839,0296	10,51087,92394 26,90846	51:36
85	95553,60523,01472 5,14798,27516	3 24048,60395 200,61249	3 39127,55377 191,68731	9,98024,70775,9743 2,33983,9219	10,51061,01548 26,89469	51: 0
84	95548,45724,73956 5,15089,33240	3 23847,99146 200,38584	3 38935,86646 191,46042	9,98022,36792,0524 2,34128,8296	10,51034,12079 26,88095	50:24
83	95543,30635,40716 5,15380,37395	3 23647,60562 200,15958	3 38744,40604 191,23392	9,98020,02663,2228 2,34273,7530	10,51007,23984 26,86721	49:48
82	95538,15255,03321 5,15671,39982	3 23447,44604 199,93372	3 38553,17212 191,00783	9,98017,68389,4698 2,34418,6920	10,50980,37263 26,85350	49:12
81	95532,99583,63339 5,15962,40995	3 23247,51232 199,70825	3 38362,16429 190,78213	9,98015,33970,7778 2,34563,6468	10,50953,51913 26,83980	48:36
80	95527,83621,22344 5,16253,40439	3 23047,80407 199,48318	3 38171,38216 190,55681	9,98012,99407,1310 2,34708,6171	10,50926,67933 26,82613	48: 0
79	95522,67367,81905 5,16544,38309	3 22848,32089 199,25850	3 37980,82535 190,33190	9,98010,64698,5139 2,34853,6031	10,50899,85320 26,81246	47:24
78	95517,50823,43596 5,16835,34606	3 22649,06239 199,03420	3 37790,49345 190,10738	9,98008,29844,9108 2,34998,6047	10,50873,04074 26,79882	46:48
77	95512,33988,08990 5,17126,29328	3 22450,02819 198,81031	3 37600,38607 189,88323	9,98005,94846,3061 2,35143,6222	10,50846,24192 26,78518	46:12
76	95507,16861,79662 5,17417,22475	3 22251,21788 198,58680	3 37410,50284 189,65950	9,98003,59702,6839 2,35288,6553	10,50819,45674 26,77158	45:36
75	95501,99444,57187 5,17708,14047	3 22052,63108 198,36368	3 37220,84334 189,43613	9,98001,24414,0286 2,35433,7041	10,50792,68516 26,75799	45: 0
74	95496,81736,43140 5,17999,04040	3 21854,26740 198,14094	3 37031,40721 189,21316	9,97998,88980,3245 2,35578,7686	10,50765,92717 26,74440	44:24
73	95491,63737,39100 5,18289,92457	3 21656,12646 197,91860	3 36842,19405 188,99059	9,97996,53401,5559 2,35723,8489	10,50739,18277 26,73085	43:48
72	95486,45447,46643 5,18580,79294	3 21458,20786 197,69663	3 36653,20346 188,76838	9,97994,17677,7070 2,35868,9449	10,50712,45192 26,71731	43:12
71	95481,26866,67349 5,18871,64552	3 21260,51123 197,47507	3 36464,43508 188,54657	9,97991,81808,7621 2,36014,0567	10,50685,73461 26,70378	42:36
70	95476,07995,02797 5,19162,48228	3 21063,03616 197,25387	3 36275,88851 188,32515	9,97989,45794,7054 2,36159,1842	10,50659,03083 26,69027	42: 0
69	95470,88832,54569 5,19453,30324	3 20865,78229 197,03306	3 36087,56336 188,10410	9,97987,09635,5212 2,36304,3276	10,50632,34056 26,67678	41:24
68	95465,69379,24245 5,19744,10838	3 20668,74923 196,81264	3 35899,45926 187,88344	9,97984,73331,1936 2,36449,4868	10,50605,66378 26,66330	40:48
67	95460,49635,13407 5,20034,89767	3 20471,93659 196,59260	3 35711,57582 187,66316	9,97982,36881,7068 2,36594,6617	10,50579,00048 26,64985	40:12

GRAD. 72.

17. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	29787,47448,77048 16,66054,58955	31203,98031 19,15375	1 04755,37403 5,70701	9,47403,36833,9131 24,28389,9679	9,49420,99952 26,64985	19:48
34	29804,13503,36003 16,65963,80095	31223,13406 19,15583	1 04761,08104 5,71082	9,47427,65223,8810 24,26900,6545	9,49447,64937 26,63640	20:24
35	29820,79467,16098 16,65872,96162	31242,28989 19,15792	1 04766,79186 5,71464	9,47451,92124,5355 24,25413,0047	9,49474,28577 26,62298	21: 0
36	29837,45340,12260 16,65782,07154	31261,44781 19,16001	1 04772,50650 5,71846	9,47476,17537,5402 24,23927,0158	9,49500,90875 26,60958	21:36
37	29854,11122,19414 16,65691,13072	31280,60782 19,16210	1 04778,22496 5,72227	9,47500,41464,5560 24,22442,6845	9,49527,51833 26,59618	22:12
38	29870,76813,32486 16,65600,13915	31299,76992 19,16419	1 04783,94723 5,72609	9,47524,63907,2405 24,20960,0082	9,49554,11451 26,58281	22:48
39	29887,42413,46401 16,65509,09686	31318,93411 19,16630	1 04789,67332 5,72990	9,47548,84867,2487 24,19478,9841	9,49580,69732 26,56945	23:24
40	29904,07922,56087 16,65418,00382	31338,10041 19,16838	1 04795,40322 5,73373	9,47573,04346,2328 24,17999,6091	9,49607,26677 26,55611	24: 0
41	29920,73340,56469 16,65326,86005	31357,26879 19,17049	1 04801,13695 5,73755	9,47597,22345,8419 24,16521,8807	9,49633,82288 26,54278	24:36
42	29937,38667,42474 16,65235,66556	31376,43928 19,17259	1 04806,87450 5,74136	9,47621,38867,7226 24,15045,7958	9,49660,36566 26,52948	25:12
43	29954,03903,09030 16,65144,42034	31395,61187 19,17468	1 04812,61586 5,74519	9,47645,53913,5184 24,13571,3516	9,49686,89514 26,51619	25:48
44	29970,69047,51064 16,65053,12439	31414,78655 19,17679	1 04818,36105 5,74902	9,47669,67484,8700 24,12098,5453	9,49713,41133 26,50291	26:24
45	29987,34100,63503 16,64961,77773	31433,96334 19,17890	1 04824,11007 5,75283	9,47693,79583,4153 24,10627,3742	9,49739,91424 26,48965	27: 0
46	30003,99062,41276 16,64870,38035	31453,14224 19,18100	1 04829,86290 5,75667	9,47717,90210,7895 24,09157,8353	9,49766,40389 26,47641	27:36
47	30020,63932,79311 16,64778,93225	31472,32324 19,18310	1 04835,61957 5,76049	9,47741,99368,6248 24,07689,9260	9,49792,88030 26,46319	28:12
48	30037,28711,72536 16,64687,43345	31491,50634 19,18522	1 04841,38006 5,76431	9,47766,07058,5508 24,06223,6433	9,49819,34349 26,44998	28:48
49	30053,93399,15881 16,64595,88392	31510,69156 19,18733	1 04847,14437 5,76814	9,47790,13282,1941 24,04758,9845	9,49845,79347 26,43678	29:24
50	30070,57995,04273 16,64504,28370	31529,87889 19,18944	1 04852,91251 5,77198	9,47814,18041,1786 24,03295,9469	9,49872,23025 26,42361	30: 0
51	30087,22499,32643 16,64412,63277	31549,06833 19,19155	1 04858,68449 5,77580	9,47838,21337,1255 24,01834,5275	9,49898,65386 26,41046	30:36
52	30103,86911,95920 16,64320,93115	31568,25988 19,19367	1 04864,46029 5,77963	9,47862,23171,6530 24,00374,7237	9,49925,06432 26,39730	31:12
53	30120,51232,89035 16,64229,17881	31587,45355 19,19578	1 04870,23992 5,78347	9,47886,23546,3767 23,98916,5328	9,49951,46162 26,38418	31:48
54	30137,15462,06916 16,64137,37580	31606,64933 19,19790	1 04876,02339 5,78730	9,47910,22462,9095 23,97459,9518	9,49977,84580 26,37107	32:24
55	30153,79599,44496 16,64045,52208	31625,84723 19,20002	1 04881,81069 5,79113	9,47934,19922,8613 23,96004,9782	9,50004,21687 26,35798	33: 0
56	30170,43644,96704 16,63953,61767	31645,04725 19,20214	1 04887,60182 5,79497	9,47958,15927,8395 23,94551,6091	9,50030,57485 26,34489	33:36
57	30187,07598,58471 16,63861,66258	31664,24939 19,20427	1 04893,39679 5,79880	9,47982,10479,4486 23,93099,8417	9,50056,91974 26,33184	34:12
58	30203,71460,24729 16,63769,65681	31683,45366 19,20638	1 04899,19559 5,80264	9,48006,03579,2903 23,91649,6735	9,50083,25158 26,31879	34:48
59	30220,35229,90410 16,63677,60035	31702,66004 19,20852	1 04904,99823 5,80648	9,48029,95228,9638 23,90201,1015	9,50109,57037 26,30576	35:24
60	30236,98907,50445 16,63585,49321	31721,86856 19,21064	1 04910,80471 5,81032	9,48053,85430,0653 23,88754,1232	9,50135,87613 26,29274	36: 0
61	30253,62492,99766 16,63493,33540	31741,07920 19,21277	1 04916,61503 5,81415	9,48077,74184,1885 23,87308,7357	9,50162,16887 26,27975	36:36
62	30270,25986,33306 16,63401,12692	31760,29197 19,21490	1 04922,42918 5,81800	9,48101,61492,9242 23,85864,9365	9,50188,44862 26,26677	37:12
63	30286,89387,45998 16,63308,86776	31779,50687 19,21703	1 04928,24718 5,82184	9,48125,47357,8607 23,84422,7227	9,50214,71539 26,25380	37:48
64	30303,52696,32774 16,63216,55794	31798,72390 19,21916	1 04934,06902 5,82569	9,48149,31780,5834 23,82982,0917	9,50240,96919 26,24085	38:24
65	30320,15912,88568 16,63124,19746	31817,94306 19,22130	1 04939,89471 5,82952	9,48173,14762,6751 23,81543,0407	9,50267,21004 26,22791	39: 0
66	30336,79037,08314 16,63031,78630	31837,16436 19,22344	1 04945,72423 5,83337	9,48196,96305,7158 23,80105,5673	9,50293,43795 26,21500	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	95460,49635,13407 5,20034,89767	3 20471,93659 196,59260	3 35711,57582 187,66316	9,97982,36881,7068 2,36594,6617	10,50579,00048 26,64985	40:12
66	95455,29600,23640 5,20325,67114	3 20275,34399 196,37293	3 35523,91266 187,44326	9,97980,00287,0451 2,36739,8524	10,50552,35063 26,63640	39:36
65	95450,09274,56526 5,20616,42874	3 20078,97106 196,15366	3 35336,46940 187,22373	9,97977,63547,1927 2,36885,0591	10,50525,71423 26,62298	39: 0
64	95444,88658,13652 5,20907,17049	3 19882,81740 195,93475	3 35149,24567 187,00460	9,97975,26662,1336 2,37030,2815	10,50499,09125 26,60958	38:24
63	95439,67750,96603 5,21197,89638	3 19686,88265 195,71622	3 34962,24107 186,78584	9,97972,89631,8521 2,37175,5197	10,50472,48167 26,59618	37:48
62	95434,46553,06965 5,21488,60638	3 19491,16643 195,49808	3 34775,45523 186,56744	9,97970,52456,3324 2,37320,7739	10,50445,88549 26,58281	37:12
61	95429,25064,46327 5,21779,30050	3 19295,66835 195,28030	3 34588,88779 186,34944	9,97968,15135,5585 2,37466,0440	10,50419,30268 26,56945	36:36
60	95424,03285,16277 5,22069,97873	3 19100,38805 195,06291	3 34402,53835 186,13181	9,97965,77669,5145 2,37611,3299	10,50392,73323 26,55611	36: 0
59	95418,81215,18404 5,22360,64105	3 18905,32514 194,84589	3 34216,40654 185,91454	9,97963,40058,1846 2,37756,6316	10,50366,17712 26,54278	35:24
58	95413,58854,54299 5,22651,28746	3 18710,47925 194,62924	3 34030,49200 185,69766	9,97961,02301,5530 2,37901,9495	10,50339,63434 26,52948	34:48
57	95408,36203,25553 5,22941,91795	3 18515,85001 194,41296	3 33844,79434 185,48114	9,97958,64399,6035 2,38047,2830	10,50313,10486 26,51619	34:12
56	95403,13261,33758 5,23232,53251	3 18321,43705 194,19707	3 33659,31320 185,26500	9,97956,26352,3205 2,38192,6326	10,50286,58867 26,50291	33:36
55	95397,90028,80507 5,23523,13113	3 18127,23998 193,98153	3 33474,04820 185,04924	9,97953,88159,6879 2,38337,9982	10,50260,08576 26,48965	33: 0
54	95392,66505,67394 5,23813,71381	3 17933,25845 193,76637	3 33288,99896 184,83383	9,97951,49821,6897 2,38483,3796	10,50233,59611 26,47641	32:24
53	95387,42691,96013 5,24104,28053	3 17739,49208 193,55158	3 33104,16513 184,61880	9,97949,11338,3101 2,38628,7771	10,50207,11970 26,46319	31:48
52	95382,18587,67960 5,24394,83127	3 17545,94050 193,33716	3 32919,54633 184,40414	9,97946,72709,5330 2,38774,1905	10,50180,65651 26,44998	31:12
51	95376,94192,84833 5,24685,36606	3 17352,60334 193,12310	3 32735,14219 184,18985	9,97944,33935,3425 2,38919,6200	10,50154,20653 26,43678	30:36
50	95371,69507,48227 5,24975,88485	3 17159,48024 192,90942	3 32550,95234 183,97592	9,97941,95015,7225 2,39065,0653	10,50127,76975 26,42361	30: 0
49	95366,44531,59742 5,25266,38766	3 16966,57082 192,69610	3 32366,97642 183,76235	9,97939,55950,6572 2,39210,5268	10,50101,34614 26,41046	29:24
48	95361,19265,20976 5,25556,87446	3 16773,87472 192,48314	3 32183,21407 183,54916	9,97937,16740,1304 2,39356,0042	10,50074,93568 26,39730	28:48
47	95355,93708,33530 5,25847,34526	3 16581,39158 192,27054	3 31999,66491 183,33633	9,97934,77384,1262 2,39501,4977	10,50048,53838 26,38418	28:12
46	95350,67860,99004 5,26137,80003	3 16389,12104 192,05832	3 31816,32858 183,12386	9,97932,37882,6285 2,39647,0073	10,50022,15420 26,37107	27:36
45	95345,41723,19001 5,26428,23878	3 16197,06272 191,84646	3 31633,20472 182,91176	9,97929,98235,6212 2,39792,5329	10,49995,78313 26,35798	27: 0
44	95340,15294,95123 5,26718,66149	3 16005,21626 191,63495	3 31450,29296 182,70001	9,97927,58443,0883 2,39938,0745	10,49969,42515 26,34489	26:24
43	95334,88576,28974 5,27009,06816	3 15813,58131 191,42381	3 31267,59295 182,48863	9,97925,18505,0138 2,40083,6323	10,49943,08026 26,33184	25:48
42	95329,61567,22158 5,27299,45878	3 15622,15750 191,21303	3 31085,10432 182,27761	9,97922,78421,3815 2,40229,2062	10,49916,74842 26,31879	25:12
41	95324,34267,76280 5,27589,83333	3 15430,94447 191,00261	3 30902,82671 182,06694	9,97920,38192,1753 2,40374,7961	10,49890,42963 26,30576	24:36
40	95319,06677,92947 5,27880,19181	3 15239,94186 190,79255	3 30720,75977 181,85664	9,97917,97817,3792 2,40520,4021	10,49864,12387 26,29274	24: 0
39	95313,78797,73766 5,28170,53421	3 15049,14931 190,58284	3 30538,90313 181,64670	9,97915,57296,9771 2,40666,0244	10,49837,83113 26,27975	23:24
38	95308,50627,20345 5,28460,86052	3 14858,56647 190,37350	3 30357,25643 181,43710	9,97913,16630,9527 2,40811,6627	10,49811,55138 26,26677	22:48
37	95303,22166,34293 5,28751,17074	3 14668,19297 190,16450	3 30175,81933 181,22787	9,97910,75819,2900 2,40957,3172	10,49785,28461 26,25380	22:12
36	95297,93415,17219 5,29041,46485	3 14478,02847 189,95586	3 29994,59146 181,01899	9,97908,34861,9728 2,41102,9879	10,49759,03081 26,24085	21:36
35	95292,64373,70734 5,29331,74283	3 14288,07261 189,74759	3 29813,57247 180,81048	9,97905,93758,9849 2,41248,6747	10,49732,78996 26,22791	21: 0
34	95287,35041,96451 5,29622,00471	3 14098,32502 189,53966	3 29632,76199 180,60230	9,97903,52510,3102 2,41394,3777	10,49706,56205 26,21500	20:24

GRAD. 72.

17. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	30353,42068,86944	31856,38780	1 04951,55760	9,48220,76411,2831	9,50319,65295	40:12
	16,62939,32450	19,22557	5,83722	23,78669,6684	26,20210	
68	30370,05008,19394	31875,61337	1 04957,39482	9,48244,55080,9515	9,50345,85505	40:48
	16,62846,81204	19,22771	5,84107	23,77235,3417	26,18921	
69	30386,67855,00598	31894,84108	1 04963,23589	9,48268,32316,2932	9,50372,04426	41:24
	16,62754,24892	19,22986	5,84491	23,75802,5843	26,17634	
70	30403,30609,25490	31914,07094	1 04969,08080	9,48292,08118,8775	9,50398,22060	42: 0
	16,62661,63516	19,23199	5,84876	23,74371,3937	26,16349	
71	30419,93270,89006	31933,30293	1 04974,92956	9,48315,82490,2712	9,50424,38409	42:36
	16,62568,97074	19,23414	5,85261	23,72941,7671	26,15065	
72	30436,55839,86080	31952,53707	1 04980,78217	9,48339,55432,0383	9,50450,53474	43:12
	16,62476,25568	19,23629	5,85646	23,71513,7019	26,13783	
73	30453,18316,11648	31971,77336	1 04986,63863	9,48363,26945,7402	9,50476,67257	43:48
	16,62383,48999	19,23843	5,86032	23,70087,1956	26,12502	
74	30469,80699,60647	31991,01179	1 04992,49895	9,48386,97032,9358	9,50502,79759	44:24
	16,62290,67364	19,24058	5,86416	23,68662,2452	26,11223	
75	30486,42990,28011	32010,25237	1 04998,36311	9,48410,65695,1810	9,50528,90982	45: 0
	16,62197,80666	19,24273	5,86803	23,67238,8485	26,09945	
76	30503,05188,08677	32029,49510	1 05004,23114	9,48434,32934,0295	9,50555,00927	45:36
	16,62104,88906	19,24488	5,87187	23,65817,0026	26,08669	
77	30519,67292,97583	32048,73998	1 05010,10301	9,48457,98751,0321	9,50581,09596	46:12
	16,62011,92082	19,24704	5,87573	23,64396,7050	26,07395	
78	30536,29304,89665	32067,98702	1 05015,97874	9,48481,63147,7371	9,50607,16991	46:48
	16,61918,90195	19,24919	5,87959	23,62977,9530	26,06122	
79	30552,91223,79860	32087,23621	1 05021,85833	9,48505,26125,6901	9,50633,23113	47:24
	16,61825,83246	19,25134	5,88345	23,61560,7440	26,04851	
80	30569,53049,63106	32106,48755	1 05027,74178	9,48528,87686,4341	9,50659,27964	48: 0
	16,61732,71234	19,25351	5,88730	23,60145,0756	26,03581	
81	30586,14782,34340	32125,74106	1 05033,62908	9,48552,47831,5097	9,50685,31545	48:36
	16,61639,54161	19,25566	5,89117	23,58730,9448	26,02313	
82	30602,76421,88501	32144,99672	1 05039,52025	9,48576,06562,4545	9,50711,33858	49:12
	16,61546,32025	19,25782	5,89502	23,57318,3494	26,01046	
83	30619,37968,20526	32164,25454	1 05045,41527	9,48599,63880,8039	9,50737,34904	49:48
	16,61453,04830	19,25999	5,89889	23,55907,2866	25,99781	
84	30635,99421,25356	32183,51453	1 05051,31416	9,48623,19788,0905	9,50763,34685	50:24
	16,61359,72572	19,26215	5,90275	23,54497,7539	25,98517	
85	30652,60780,97928	32202,77668	1 05057,21691	9,48646,74285,8444	9,50789,33202	51: 0
	16,61266,35253	19,26431	5,90662	23,53089,7487	25,97256	
86	30669,22047,33181	32222,04099	1 05063,12353	9,48670,27375,5931	9,50815,30458	51:36
	16,61172,92875	19,26648	5,91048	23,51683,2685	25,95995	
87	30685,83220,26056	32241,30747	1 05069,03401	9,48693,79058,8616	9,50841,26453	52:12
	16,61079,45436	19,26865	5,91434	23,50278,3106	25,94736	
88	30702,44299,71492	32260,57612	1 05074,94835	9,48717,29337,1722	9,50867,21189	52:48
	16,60985,92937	19,27082	5,91822	23,48874,8725	25,93479	
89	30719,05285,64429	32279,84694	1 05080,86657	9,48740,78212,0447	9,50893,14668	53:24
	16,60892,35378	19,27299	5,92208	23,47472,9518	25,92223	
90	30735,66177,99807	32299,11993	1 05086,78865	9,48764,25684,9965	9,50919,06891	54: 0
	16,60798,72760	19,27517	5,92595	23,46072,5458	25,90969	
91	30752,26976,72567	32318,39510	1 05092,71460	9,48787,71757,5423	9,50944,97860	54:36
	16,60705,05084	19,27734	5,92982	23,44673,6519	25,89716	
92	30768,87681,77651	32337,67244	1 05098,64442	9,48811,16431,1942	9,50970,87576	55:12
	16,60611,32347	19,27951	5,93369	23,43276,2677	25,88464	
93	30785,48293,09998	32356,95195	1 05104,57811	9,48834,59707,4619	9,50996,76040	55:48
	16,60517,54553	19,28170	5,93756	23,41880,3906	25,87215	
94	30802,08810,64551	32376,23365	1 05110,51567	9,48858,01587,8525	9,51022,63255	56:24
	16,60423,71701	19,28387	5,94144	23,40486,0182	25,85967	
95	30818,69234,36252	32395,51752	1 05116,45711	9,48881,42073,8707	9,51048,49222	57: 0
	16,60329,83790	19,28605	5,94531	23,39093,1479	25,84720	
96	30835,29564,20042	32414,80357	1 05122,40242	9,48904,81167,0186	9,51074,33942	57:36
	16,60235,90821	19,28824	5,94919	23,37701,7770	25,83475	
97	30851,89800,10863	32434,09181	1 05128,35161	9,48928,18868,7956	9,51100,17417	58:12
	16,60141,92797	19,29042	5,95306	23,36311,9034	25,82231	
98	30868,49942,03660	32453,38223	1 05134,30467	9,48951,55180,6990	9,51125,99648	58:48
	16,60047,89713	19,29260	5,95694	23,34923,5242	25,80989	
99	30885,09989,93373	32472,67483	1 05140,26161	9,48974,90104,2232	9,51151,80637	59:24
	16,59953,81574	19,29479	5,96081	23,33536,6372	25,79748	
100	30901,69943,74947	32491,96962	1 05146,22242	9,48998,23640,8604	9,51177,60385	60: 0
	16,59859,68379	19,29698	5,96470	23,32151,2397	25,78510	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	95282,05419,95980 5,29912,25044	3 13908,78536 189,33208	3 29452,15969 180,39448	9,97901,11115,9325 2,41540,0969	10,49680,34705 26,20210	19:48
32	95276,75507,70936 5,30202,48003	3 13719,45328 189,12487	3 29271,76521 180,18702	9,97898,69575,8356 2,41685,8324	10,49654,14495 26,18921	19:12
31	95271,45305,22933 5,30492,69347	3 13530,32841 188,91799	3 29091,57819 179,97991	9,97896,27890,0032 2,41831,5840	10,49627,95574 26,17634	18:36
30	95266,14812,53586 5,30782,89075	3 13341,41042 188,71147	3 28911,59828 179,77314	9,97893,86058,4192 2,41977,3519	10,49601,77940 26,16349	18: 0
29	95260,84029,64511 5,31073,07187	3 13152,69895 188,50530	3 28731,82514 179,56673	9,97891,44081,0673 2,42123,1360	10,49575,61591 26,15065	17:24
28	95255,52956,57324 5,31363,23680	3 12964,19365 188,29949	3 28552,25841 179,36067	9,97889,01957,9313 2,42268,9364	10,49549,46526 26,13783	16:48
27	95250,21593,33644 5,31653,38555	3 12775,89416 188,09401	3 28372,89774 179,15495	9,97886,59688,9949 2,42414,7530	10,49523,32743 26,12502	16:12
26	95244,89939,95089 5,31943,51811	3 12587,80015 187,88888	3 28193,74279 178,94959	9,97884,17274,2419 2,42560,5860	10,49497,20241 26,11223	15:36
25	95239,57996,43278 5,32233,63445	3 12399,91127 187,68411	3 28014,79320 178,74456	9,97881,74713,6559 2,42706,4352	10,49471,09018 26,09945	15: 0
24	95234,25762,79833 5,32523,73460	3 12212,22716 187,47968	3 27836,04864 178,53989	9,97879,32007,2207 2,42852,3007	10,49444,99073 26,08669	14:24
23	95228,93239,06373 5,32813,81851	3 12024,74748 187,27559	3 27657,50875 178,33556	9,97876,89154,9200 2,42998,1825	10,49418,90404 26,07395	13:48
22	95223,60425,24522 5,33103,88619	3 11837,47189 187,07185	3 27479,17319 178,13157	9,97874,46156,7375 2,43144,0807	10,49392,83009 26,06122	13:12
21	95218,27321,35903 5,33393,93764	3 11650,40004 186,86845	3 27301,04162 177,92793	9,97872,03012,6568 2,43289,9952	10,49366,76887 26,04851	12:36
20	95212,93927,42139 5,33683,97284	3 11463,53159 186,66540	3 27123,11369 177,72463	9,97869,59722,6616 2,43435,9260	10,49340,72036 26,03581	12: 0
19	95207,60243,44855 5,33973,99178	3 11276,86619 186,46268	3 26945,38906 177,52167	9,97867,16286,7356 2,43581,8733	10,49314,68455 26,02313	11:24
18	95202,26269,45677 5,34263,99446	3 11090,40351 186,26031	3 26767,86739 177,31906	9,97864,72704,8623 2,43727,8368	10,49288,66142 26,01046	10:48
17	95196,92005,46231 5,34553,98086	3 10904,14320 186,05828	3 26590,54833 177,11678	9,97862,28977,0255 2,43873,8168	10,49262,65096 25,99781	10:12
16	95191,57451,48145 5,34843,95097	3 10718,08492 185,85658	3 26413,43155 176,91484	9,97859,85103,2087 2,44019,8132	10,49236,65315 25,98517	9:36
15	95186,22607,53048 5,35133,90480	3 10532,22834 185,65524	3 26236,51671 176,71324	9,97857,41083,3955 2,44165,8259	10,49210,66798 25,97256	9: 0
14	95180,87473,62568 5,35423,84233	3 10346,57310 185,45422	3 26059,80347 176,51199	9,97854,96917,5696 2,44311,8551	10,49184,69542 25,95995	8:24
13	95175,52049,78335 5,35713,76353	3 10161,11888 185,25354	3 25883,29148 176,31106	9,97852,52605,7145 2,44457,9008	10,49158,73547 25,94736	7:48
12	95170,16336,01982 5,36003,66844	3 09975,86534 185,05321	3 25706,98042 176,11048	9,97850,08147,8137 2,44603,9628	10,49132,78811 25,93479	7:12
11	95164,80332,35138 5,36293,55700	3 09790,81213 184,85320	3 25530,86994 175,91023	9,97847,63543,8509 2,44750,0413	10,49106,85332 25,92223	6:36
10	95159,44038,79438 5,36583,42923	3 09605,95893 184,65353	3 25354,95971 175,71032	9,97845,18793,8096 2,44896,1362	10,49080,93109 25,90969	6: 0
9	95154,07455,36515 5,36873,28512	3 09421,30540 184,45420	3 25179,24939 175,51073	9,97842,73897,6734 2,45042,2478	10,49055,02140 25,89716	5:24
8	95148,70582,08003 5,37163,12465	3 09236,85120 184,25520	3 25003,73866 175,31149	9,97840,28855,4256 2,45188,3757	10,49029,12424 25,88464	4:48
7	95143,33418,95538 5,37452,94782	3 09052,59600 184,05653	3 24828,42717 175,11258	9,97837,83667,0499 2,45334,5201	10,49003,23960 25,87215	4:12
6	95137,95966,00756 5,37742,75461	3 08868,53947 183,85820	3 24653,31459 174,91400	9,97835,38332,5298 2,45480,6811	10,48977,36745 25,85967	3:36
5	95132,58223,25295 5,38032,54504	3 08684,68127 183,66019	3 24478,40059 174,71574	9,97832,92851,8487 2,45626,8586	10,48951,50778 25,84720	3: 0
4	95127,20190,70791 5,38322,31906	3 08501,02108 183,46253	3 24303,68485 174,51783	9,97830,47224,9901 2,45773,0526	10,48925,66058 25,83475	2:24
3	95121,81868,38885 5,38612,07669	3 08317,55855 183,26518	3 24129,16702 174,32024	9,97828,01451,9375 2,45919,2631	10,48899,82583 25,82231	1:48
2	95116,43256,31216 5,38901,81791	3 08134,29337 183,06817	3 23954,84678 174,12298	9,97825,55532,6744 2,46065,4903	10,48874,00352 25,80989	1:12
1	95111,04354,49425 5,39191,54271	3 07951,22520 182,87148	3 23780,72380 173,92605	9,97823,09467,1841 2,46211,7340	10,48848,19363 25,79748	0:36
0	95105,65162,95154 5,39481,25110	3 07768,35372 182,67513	3 23606,79775 173,72945	9,97820,63255,4501 2,46357,9942	10,48822,39615 25,78510	0: 0

GRAD. 72.

18. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	30901,69943,74947 16,59859,68379	32491,96962 19,29698	1 05146,22242 5,96470	9,48998,23640,8604 23,32151,2397	9,51177,60385 25,78510	0: 0
1	30918,29803,43326 16,59765,50126	32511,26660 19,29917	1 05152,18712 5,96858	9,49021,55792,1001 23,30767,3294	9,51203,38895 25,77271	0:36
2	30934,89568,93452 16,59671,26818	32530,56577 19,30137	1 05158,15570 5,97245	9,49044,86559,4295 23,29384,9038	9,51229,16166 25,76036	1:12
3	30951,49240,20270 16,59576,98454	32549,86714 19,30355	1 05164,12815 5,97634	9,49068,15944,3333 23,28003,9601	9,51254,92202 25,74801	1:48
4	30968,08817,18724 16,59482,65035	32569,17069 19,30575	1 05170,10449 5,98023	9,49091,43948,2934 23,26624,4963	9,51280,67003 25,73567	2:24
5	30984,68299,83759 16,59388,26562	32588,47644 19,30795	1 05176,08472 5,98411	9,49114,70572,7897 23,25246,5098	9,51306,40570 25,72336	3: 0
6	31001,27688,10321 16,59293,83032	32607,78439 19,31014	1 05182,06883 5,98799	9,49137,95819,2995 23,23869,9978	9,51332,12906 25,71106	3:36
7	31017,86981,93353 16,59199,34448	32627,09453 19,31234	1 05188,05682 5,99188	9,49161,19689,2973 23,22494,9584	9,51357,84012 25,69877	4:12
8	31034,46181,27801 16,59104,80811	32646,40687 19,31455	1 05194,04870 5,99577	9,49184,42184,2557 23,21121,3888	9,51383,53889 25,68651	4:48
9	31051,05286,08612 16,59010,22120	32665,72142 19,31674	1 05200,04447 5,99965	9,49207,63305,6445 23,19749,2866	9,51409,22540 25,67424	5:24
10	31067,64296,30732 16,58915,58374	32685,03816 19,31895	1 05206,04412 6,00355	9,49230,83054,9311 23,18378,6495	9,51434,89964 25,66200	6: 0
11	31084,23211,89106 16,58820,89576	32704,35711 19,32116	1 05212,04767 6,00743	9,49254,01433,5806 23,17009,4749	9,51460,56164 25,64977	6:36
12	31100,82032,78682 16,58726,15724	32723,67827 19,32336	1 05218,05510 6,01133	9,49277,18443,0555 23,15641,7605	9,51486,21141 25,63757	7:12
13	31117,40758,94406 16,58631,36819	32743,00163 19,32557	1 05224,06643 6,01522	9,49300,34084,8160 23,14275,5038	9,51511,84898 25,62536	7:48
14	31133,99390,31225 16,58536,52863	32762,32720 19,32779	1 05230,08165 6,01911	9,49323,48360,3198 23,12910,7025	9,51537,47434 25,61318	8:24
15	31150,57926,84088 16,58441,63854	32781,65499 19,32999	1 05236,10076 6,02301	9,49346,61271,0223 23,11547,3541	9,51563,08752 25,60101	9: 0
16	31167,16368,47942 16,58346,69793	32800,98498 19,33221	1 05242,12377 6,02690	9,49369,72818,3764 23,10185,4562	9,51588,68853 25,58886	9:36
17	31183,74715,17735 16,58251,70680	32820,31719 19,33442	1 05248,15067 6,03080	9,49392,83003,8326 23,08825,0064	9,51614,27739 25,57672	10:12
18	31200,32966,88415 16,58156,66516	32839,65161 19,33664	1 05254,18147 6,03470	9,49415,91828,8390 23,07466,0024	9,51639,85411 25,56460	10:48
19	31216,91123,54931 16,58061,57302	32858,98825 19,33886	1 05260,21617 6,03860	9,49438,99294,8414 23,06108,4417	9,51665,41871 25,55248	11:24
20	31233,49185,12233 16,57966,43035	32878,32711 19,34107	1 05266,25477 6,04250	9,49462,05403,2831 23,04752,3220	9,51690,97119 25,54039	12: 0
21	31250,07151,55268 16,57871,23720	32897,66818 19,34330	1 05272,29727 6,04639	9,49485,10155,6051 23,03397,6409	9,51716,51158 25,52831	12:36
22	31266,65022,78988 16,57775,99353	32917,01148 19,34552	1 05278,34366 6,05030	9,49508,13553,2460 23,02044,3960	9,51742,03989 25,51625	13:12
23	31283,22798,78341 16,57680,69937	32936,35700 19,34774	1 05284,39396 6,05421	9,49531,15597,6420 23,00692,5850	9,51767,55614 25,50419	13:48
24	31299,80479,48278 16,57585,35472	32955,70474 19,34997	1 05290,44817 6,05810	9,49554,16290,2270 22,99342,2053	9,51793,06033 25,49215	14:24
25	31316,38064,83750 16,57489,95956	32975,05471 19,35220	1 05296,50627 6,06202	9,49577,15632,4323 22,97993,2550	9,51818,55248 25,48013	15: 0
26	31332,95554,79706 16,57394,51392	32994,40691 19,35443	1 05302,56829 6,06591	9,49600,13625,6873 22,96645,7314	9,51844,03261 25,46813	15:36
27	31349,52949,31098 16,57299,01780	33013,76134 19,35666	1 05308,63420 6,06983	9,49623,10271,4187 22,95299,6322	9,51869,50074 25,45613	16:12
28	31366,10248,32878 16,57203,47118	33033,11800 19,35888	1 05314,70403 6,07373	9,49646,05571,0509 22,93954,9552	9,51894,95687 25,44415	16:48
29	31382,67451,79996 16,57107,87409	33052,47688 19,36113	1 05320,77776 6,07764	9,49668,99526,0061 22,92611,6978	9,51920,40102 25,43218	17:24
30	31399,24559,67405 16,57012,22652	33071,83801 19,36336	1 05326,85540 6,08156	9,49691,92137,7039 22,91269,8581	9,51945,83320 25,42024	18: 0
31	31415,81571,90057 16,56916,52847	33091,20137 19,36559	1 05332,93696 6,08546	9,49714,83407,5620 22,89929,4333	9,51971,25344 25,40829	18:36
32	31432,38488,42904 16,56820,77995	33110,56696 19,36783	1 05339,02242 6,08938	9,49737,73336,9953 22,88590,4214	9,51996,66173 25,39638	19:12
33	31448,95309,20899 16,56724,98096	33129,93479 19,37008	1 05345,11180 6,09329	9,49760,61927,4167 22,87252,8199	9,52022,05811 25,38447	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	95105,65162,95154 5,39481,25110	3 07768,35372 182,67513	3 23606,79775 173,72945	9,97820,63255,4501 2,46357,9942	10,48822,39615 25,78510	60: 0
99	95100,25681,70044 5,39770,94305	3 07585,67859 182,47910	3 23433,06830 173,53316	9,97818,16897,4559 2,46504,2712	10,48796,61105 25,77271	59:24
98	95094,85910,75739 5,40060,61855	3 07403,19949 182,28340	3 23259,53514 173,33722	9,97815,70393,1847 2,46650,5646	10,48770,83834 25,76036	58:48
97	95089,45850,13884 5,40350,27761	3 07220,91609 182,08802	3 23086,19792 173,14160	9,97813,23742,6201 2,46796,8747	10,48745,07798 25,74801	58:12
96	95084,05499,86123 5,40639,92020	3 07038,82807 181,89297	3 22913,05632 172,94629	9,97810,76945,7454 2,46943,2014	10,48719,32997 25,73567	57:36
95	95078,64859,94103 5,40929,54632	3 06856,93510 181,69824	3 22740,11003 172,75132	9,97808,30002,5440 2,47089,5448	10,48693,59430 25,72336	57: 0
94	95073,23930,39471 5,41219,15598	3 06675,23686 181,50384	3 22567,35871 172,55667	9,97805,82912,9992 2,47235,9049	10,48667,87094 25,71106	56:24
93	95067,82711,23873 5,41508,74913	3 06493,73302 181,30976	3 22394,80204 172,36234	9,97803,35677,0943 2,47382,2815	10,48642,15988 25,69877	55:48
92	95062,41202,48960 5,41798,32580	3 06312,42326 181,11600	3 22222,43970 172,16834	9,97800,88294,8128 2,47528,6749	10,48616,46111 25,68651	55:12
91	95056,99404,16380 5,42087,88596	3 06131,30726 180,92256	3 22050,27136 171,97464	9,97798,40766,1379 2,47675,0849	10,48590,77460 25,67424	54:36
90	95051,57316,27784 5,42377,42961	3 05950,38470 180,72945	3 21878,29672 171,78128	9,97795,93091,0530 2,47821,5117	10,48565,10036 25,66200	54: 0
89	95046,14938,84823 5,42666,95674	3 05769,65525 180,53664	3 21706,51544 171,58824	9,97793,45269,5413 2,47967,9551	10,48539,43836 25,64977	53:24
88	95040,72271,89149 5,42956,46734	3 05589,11861 180,34418	3 21534,92720 171,39551	9,97790,97301,5862 2,48114,4154	10,48513,78859 25,63757	52:48
87	95035,29315,42415 5,43245,96139	3 05408,77443 180,15201	3 21363,53169 171,20310	9,97788,49187,1708 2,48260,8922	10,48488,15102 25,62536	52:12
86	95029,86069,46276 5,43535,43890	3 05228,62242 179,96017	3 21192,32859 171,01101	9,97786,00926,2786 2,48407,3860	10,48462,52566 25,61318	51:36
85	95024,42534,02386 5,43824,89985	3 05048,66225 179,76865	3 21021,31758 170,81924	9,97783,52518,8926 2,48553,8963	10,48436,91248 25,60101	51: 0
84	95018,98709,12401 5,44114,34424	3 04868,89360 179,57745	3 20850,49834 170,62779	9,97781,03964,9963 2,48700,4236	10,48411,31147 25,58886	50:24
83	95013,54594,77977 5,44403,77205	3 04689,31615 179,38655	3 20679,87055 170,43664	9,97778,55264,5727 2,48846,9675	10,48385,72261 25,57672	49:48
82	95008,10191,00772 5,44693,18328	3 04509,92960 179,19597	3 20509,43391 170,24582	9,97776,06417,6052 2,48993,5284	10,48360,14589 25,56460	49:12
81	95002,65497,82444 5,44982,57791	3 04330,73363 179,00572	3 20339,18809 170,05530	9,97773,57424,0768 2,49140,1059	10,48334,58129 25,55248	48:36
80	94997,20515,24653 5,45271,95595	3 04151,72791 178,81577	3 20169,13279 169,86511	9,97771,08283,9709 2,49286,7003	10,48309,02881 25,54039	48: 0
79	94991,75243,29058 5,45561,31738	3 03972,91214 178,62613	3 19999,26768 169,67522	9,97768,58997,2706 2,49433,3116	10,48283,48842 25,52831	47:24
78	94986,29681,97320 5,45850,66217	3 03794,28601 178,43681	3 19829,59246 169,48565	9,97766,09563,9590 2,49579,9396	10,48257,96011 25,51625	46:48
77	94980,83831,31103 5,46139,99036	3 03615,84920 178,24780	3 19660,10681 169,29639	9,97763,59984,0194 2,49726,5846	10,48232,44386 25,50419	46:12
76	94975,37691,32067 5,46429,30190	3 03437,60140 178,05910	3 19490,81042 169,10743	9,97761,10257,4348 2,49873,2463	10,48206,93967 25,49215	45:36
75	94969,91262,01877 5,46718,59680	3 03259,54230 177,87071	3 19321,70299 168,91880	9,97758,60384,1885 2,50019,9251	10,48181,44752 25,48013	45: 0
74	94964,44543,42197 5,47007,87503	3 03081,67159 177,68263	3 19152,78419 168,73047	9,97756,10364,2634 2,50166,6205	10,48155,96739 25,46813	44:24
73	94958,97535,54694 5,47297,13662	3 02903,98896 177,49486	3 18984,05372 168,54244	9,97753,60197,6429 2,50313,3331	10,48130,49926 25,45613	43:48
72	94953,50238,41032 5,47586,38153	3 02726,49410 177,30740	3 18815,51128 168,35473	9,97751,09884,3098 2,50460,0624	10,48105,04313 25,44415	43:12
71	94948,02652,02879 5,47875,60975	3 02549,18670 177,12024	3 18647,15655 168,16733	9,97748,59424,2474 2,50606,8088	10,48079,59898 25,43218	42:36
70	94942,54776,41904 5,48164,82129	3 02372,06646 176,93339	3 18478,98922 167,98022	9,97746,08817,4386 2,50753,5719	10,48054,16680 25,42024	42: 0
69	94937,06611,59775 5,48454,01614	3 02195,13307 176,74686	3 18311,00900 167,79343	9,97743,58063,8667 2,50900,3522	10,48028,74656 25,40829	41:24
68	94931,58157,58161 5,48743,19426	3 02018,38621 176,56061	3 18143,21557 167,60695	9,97741,07163,5145 2,51047,1493	10,48003,33827 25,39638	40:48
67	94926,09414,38735 5,49032,35569	3 01841,82560 176,37469	3 17975,60862 167,42076	9,97738,56116,3652 2,51193,9634	10,47977,94189 25,38447	40:12

GRAD. 71.

18. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	31448,95309,20899 16,56724,98096	33129,93479 19,37008	1 05345,11180 6,09329	9,49760,61927,4167 22,87252,8199	9,52022,05811 25,38447	19:48
34	31465,52034,18995 16,56629,13151	33149,30487 19,37231	1 05351,20509 6,09720	9,49783,49180,2366 22,85916,6268	9,52047,44258 25,37257	20:24
35	31482,08663,32146 16,56533,23159	33168,67718 19,37456	1 05357,30229 6,10112	9,49806,35096,8634 22,84581,8393	9,52072,81515 25,36070	21: 0
36	31498,65196,55305 16,56437,28120	33188,05174 19,37680	1 05363,40341 6,10504	9,49829,19678,7027 22,83248,4556	9,52098,17585 25,34883	21:36
37	31515,21633,83425 16,56341,28037	33207,42854 19,37905	1 05369,50845 6,10895	9,49852,02927,1583 22,81916,4730	9,52123,52468 25,33698	22:12
38	31531,77975,11462 16,56245,22908	33226,80759 19,38130	1 05375,61740 6,11287	9,49874,84843,6313 22,80585,8895	9,52148,86166 25,32514	22:48
39	31548,34220,34370 16,56149,12732	33246,18889 19,38354	1 05381,73027 6,11680	9,49897,65429,5208 22,79256,7027	9,52174,18680 25,31332	23:24
40	31564,90369,47102 16,56052,97514	33265,57243 19,38580	1 05387,84707 6,12071	9,49920,44686,2235 22,77928,9104	9,52199,50012 25,30151	24: 0
41	31581,46422,44616 16,55956,77249	33284,95823 19,38805	1 05393,96778 6,12463	9,49943,22615,1339 22,76602,5101	9,52224,80163 25,28971	24:36
42	31598,02379,21865 16,55860,51941	33304,34628 19,39030	1 05400,09241 6,12856	9,49965,99217,6440 22,75277,4998	9,52250,09134 25,27794	25:12
43	31614,58239,73806 16,55764,21588	33323,73658 19,39256	1 05406,22097 6,13248	9,49988,74495,1438 22,73953,8771	9,52275,36928 25,26617	25:48
44	31631,14003,95394 16,55667,86192	33343,12914 19,39482	1 05412,35345 6,13641	9,50011,48449,0209 22,72631,6397	9,52300,63545 25,25441	26:24
45	31647,69671,81586 16,55571,45752	33362,52396 19,39707	1 05418,48986 6,14033	9,50034,21080,6606 22,71310,7855	9,52325,88986 25,24268	27: 0
46	31664,25243,27338 16,55475,00270	33381,92103 19,39934	1 05424,63019 6,14427	9,50056,92391,4461 22,69991,3121	9,52351,13254 25,23096	27:36
47	31680,80718,27608 16,55378,49744	33401,32037 19,40159	1 05430,77446 6,14818	9,50079,62382,7582 22,68673,2174	9,52376,36350 25,21924	28:12
48	31697,36096,77352 16,55281,94175	33420,72196 19,40386	1 05436,92264 6,15212	9,50102,31055,9756 22,67356,4990	9,52401,58274 25,20755	28:48
49	31713,91378,71527 16,55185,33565	33440,12582 19,40613	1 05443,07476 6,15605	9,50124,98412,4746 22,66041,1548	9,52426,79029 25,19586	29:24
50	31730,46564,05092 16,55088,67913	33459,53195 19,40839	1 05449,23081 6,15998	9,50147,64453,6294 22,64727,1824	9,52451,98615 25,18420	30: 0
51	31747,01652,73005 16,54991,97218	33478,94034 19,41066	1 05455,39079 6,16391	9,50170,29180,8118 22,63414,5798	9,52477,17035 25,17254	30:36
52	31763,56644,70223 16,54895,21482	33498,35100 19,41293	1 05461,55470 6,16785	9,50192,92595,3916 22,62103,3447	9,52502,34289 25,16090	31:12
53	31780,11539,91705 16,54798,40706	33517,76393 19,41521	1 05467,72255 6,17178	9,50215,54698,7363 22,60793,4747	9,52527,50379 25,14927	31:48
54	31796,66338,32411 16,54701,54888	33537,17914 19,41747	1 05473,89433 6,17571	9,50238,15492,2110 22,59484,9678	9,52552,65306 25,13766	32:24
55	31813,21039,87299 16,54604,64030	33556,59661 19,41975	1 05480,07004 6,17965	9,50260,74977,1788 22,58177,8218	9,52577,79072 25,12606	33: 0
56	31829,75644,51329 16,54507,68132	33576,01636 19,42203	1 05486,24969 6,18360	9,50283,33155,0006 22,56872,0344	9,52602,91678 25,11448	33:36
57	31846,30152,19461 16,54410,67194	33595,43839 19,42430	1 05492,43329 6,18752	9,50305,90027,0350 22,55567,6035	9,52628,03126 25,10290	34:12
58	31862,84562,86655 16,54313,61216	33614,86269 19,42658	1 05498,62081 6,19147	9,50328,45594,6385 22,54264,5267	9,52653,13416 25,09134	34:48
59	31879,38876,47871 16,54216,50199	33634,28927 19,42887	1 05504,81228 6,19541	9,50350,99859,1652 22,52962,8020	9,52678,22550 25,07980	35:24
60	31895,93092,98070 16,54119,34143	33653,71814 19,43114	1 05511,00769 6,19936	9,50373,52821,9672 22,51662,4272	9,52703,30530 25,06827	36: 0
61	31912,47212,32213 16,54022,13047	33673,14928 19,43343	1 05517,20705 6,20329	9,50396,04484,3944 22,50363,4002	9,52728,37357 25,05675	36:36
62	31929,01234,45260 16,53924,86915	33692,58271 19,43572	1 05523,41034 6,20724	9,50418,54847,7946 22,49065,7186	9,52753,43032 25,04525	37:12
63	31945,55159,32175 16,53827,55743	33712,01843 19,43800	1 05529,61758 6,21119	9,50441,03913,5132 22,47769,3803	9,52778,47557 25,03376	37:48
64	31962,08986,87918 16,53730,19534	33731,45643 19,44030	1 05535,82877 6,21513	9,50463,51682,8935 22,46474,3833	9,52803,50933 25,02228	38:24
65	31978,62717,07452 16,53632,78286	33750,89673 19,44258	1 05542,04390 6,21907	9,50485,98157,2768 22,45180,7254	9,52828,53161 25,01081	39: 0
66	31995,16349,85738 16,53535,32003	33770,33931 19,44487	1 05548,26297 6,22303	9,50508,43338,0022 22,43888,4042	9,52853,54242 24,99937	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	94926,09414,38735 5,49032,35569	3 01841,82560 176,37469	3 17975,60862 167,42076	9,97738,56116,3652 2,51193,9634	10,47977,94189 25,38447	40:12
66	94920,60382,03166 5,49321,50038	3 01665,45091 176,18906	3 17808,18786 167,23488	9,97736,04922,4018 2,51340,7946	10,47952,55742 25,37257	39:36
65	94915,11060,53128 5,49610,62833	3 01489,26185 176,00374	3 17640,95298 167,04930	9,97733,53581,6072 2,51487,6426	10,47927,18485 25,36070	39: 0
64	94909,61449,90295 5,49899,73956	3 01313,25811 175,81871	3 17473,90368 166,86404	9,97731,02093,9646 2,51634,5077	10,47901,82415 25,34883	38:24
63	94904,11550,16339 5,50188,83402	3 01137,43940 175,63400	3 17307,03964 166,67906	9,97728,50459,4569 2,51781,3899	10,47876,47532 25,33698	37:48
62	94898,61361,32937 5,50477,91173	3 00961,80540 175,44958	3 17140,36058 166,49439	9,97725,98678,0670 2,51928,2890	10,47851,13834 25,32514	37:12
61	94893,10883,41764 5,50766,97267	3 00786,35582 175,26547	3 16973,86619 166,31003	9,97723,46749,7780 2,52075,2053	10,47825,81320 25,31332	36:36
60	94887,60116,44497 5,51056,01684	3 00611,09035 175,08165	3 16807,55616 166,12596	9,97720,94674,5727 2,52222,1385	10,47800,49988 25,30151	36: 0
59	94882,09060,42813 5,51345,04420	3 00436,00870 174,89814	3 16641,43020 165,94218	9,97718,42452,4342 2,52369,0888	10,47775,19837 25,28971	35:24
58	94876,57715,38393 5,51634,05479	3 00261,11056 174,71492	3 16475,48802 165,75872	9,97715,90083,3454 2,52516,0562	10,47749,90866 25,27794	34:48
57	94871,06081,32914 5,51923,04856	3 00086,39564 174,53200	3 16309,72930 165,57555	9,97713,37567,2892 2,52663,0408	10,47724,63072 25,26617	34:12
56	94865,54158,28058 5,52212,02553	2 99911,86364 174,34938	3 16144,15375 165,39267	9,97710,84904,2484 2,52810,0423	10,47699,36455 25,25441	33:36
55	94860,01946,25505 5,52500,98568	2 99737,51426 174,16706	3 15978,76108 165,21010	9,97708,32094,2061 2,52957,0610	10,47674,11014 25,24268	33: 0
54	94854,49445,26937 5,52789,92898	2 99563,34720 173,98503	3 15813,55098 165,02781	9,97705,79137,1451 2,53104,0969	10,47648,86746 25,23096	32:24
53	94848,96655,34039 5,53078,85546	2 99389,36217 173,80331	3 15648,52317 164,84583	9,97703,26033,0482 2,53251,1499	10,47623,63650 25,21924	31:48
52	94843,43576,48493 5,53367,76508	2 99215,55886 173,62186	3 15483,67734 164,66414	9,97700,72781,8983 2,53398,2200	10,47598,41726 25,20755	31:12
51	94837,90208,71985 5,53656,65786	2 99041,93700 173,44073	3 15319,01320 164,48275	9,97698,19383,6783 2,53545,3073	10,47573,20971 25,19586	30:36
50	94832,36552,06199 5,53945,53376	2 98868,49627 173,25987	3 15154,53045 164,30164	9,97695,65838,3710 2,53692,4118	10,47548,01385 25,18420	30: 0
49	94826,82606,52823 5,54234,39278	2 98695,23640 173,07933	3 14990,22881 164,12083	9,97693,12145,9592 2,53839,5335	10,47522,82965 25,17254	29:24
48	94821,28372,13545 5,54523,23494	2 98522,15707 172,89906	3 14826,10798 163,94032	9,97690,58306,4257 2,53986,6723	10,47497,65711 25,16090	28:48
47	94815,73848,90051 5,54812,06019	2 98349,25801 172,71909	3 14662,16766 163,76009	9,97688,04319,7534 2,54133,8284	10,47472,49621 25,14927	28:12
46	94810,19036,84032 5,55100,86855	2 98176,53892 172,53941	3 14498,40757 163,58016	9,97685,50185,9250 2,54281,0016	10,47447,34694 25,13766	27:36
45	94804,63935,97177 5,55389,65999	2 98003,99951 172,36003	3 14334,82741 163,40052	9,97682,95904,9234 2,54428,1922	10,47422,20928 25,12606	27: 0
44	94799,08546,31178 5,55678,43452	2 97831,63948 172,18093	3 14171,42689 163,22116	9,97680,41476,7312 2,54575,4000	10,47397,08322 25,11448	26:24
43	94793,52867,87726 5,55967,19212	2 97659,45855 172,00212	3 14008,20573 163,04210	9,97677,86901,3312 2,54722,6250	10,47371,96874 25,10290	25:48
42	94787,96900,68514 5,56255,93278	2 97487,45643 171,82360	3 13845,16363 162,86333	9,97675,32178,7062 2,54869,8674	10,47346,86584 25,09134	25:12
41	94782,40644,75236 5,56544,65650	2 97315,63283 171,64537	3 13682,30030 162,68484	9,97672,77308,8388 2,55017,1269	10,47321,77450 25,07980	24:36
40	94776,84100,09586 5,56833,36327	2 97143,98746 171,46743	3 13519,61546 162,50663	9,97670,22291,7119 2,55164,4038	10,47296,69470 25,06827	24: 0
39	94771,27266,73259 5,57122,05308	2 96972,52003 171,28978	3 13357,10883 162,32873	9,97667,67127,3081 2,55311,6980	10,47271,62643 25,05675	23:24
38	94765,70144,67951 5,57410,72591	2 96801,23025 171,11240	3 13194,78010 162,15110	9,97665,11815,6101 2,55459,0095	10,47246,56968 25,04525	22:48
37	94760,12733,95360 5,57699,38176	2 96630,11785 170,93532	3 13032,62900 161,97376	9,97662,56356,6006 2,55606,3383	10,47221,52443 25,03376	22:12
36	94754,55034,57184 5,57988,02063	2 96459,18253 170,75852	3 12870,65524 161,79671	9,97660,00750,2623 2,55753,6845	10,47196,49067 25,02228	21:36
35	94748,97046,55121 5,58276,64250	2 96288,42401 170,58200	3 12708,85853 161,61993	9,97657,44996,5778 2,55901,0481	10,47171,46839 25,01081	21: 0
34	94743,38769,90871 5,58565,24736	2 96117,84201 170,40578	3 12547,23860 161,44345	9,97654,89095,5297 2,56048,4290	10,47146,45758 24,99937	20:24

GRAD. 71.

18. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	32011,69885,17741	33789,78418	1 05554,48600	9,50530,87226,4064	9,52878,54179	40:12
	16,53437,80682	19,44717	6,22698	22,42597,4179	24,98794	
68	32028,23322,98423	33809,23135	1 05560,71298	9,50553,29823,8243	9,52903,52973	40:48
	16,53340,24324	19,44947	6,23093	22,41307,7640	24,97651	
69	32044,76663,22747	33828,68082	1 05566,94391	9,50575,71131,5883	9,52928,50624	41:24
	16,53242,62929	19,45176	6,23488	22,40019,4407	24,96510	
70	32061,29905,85676	33848,13258	1 05573,17879	9,50598,11151,0290	9,52953,47134	42: 0
	16,53144,96500	19,45405	6,23883	22,38732,4456	24,95370	
71	32077,83050,82176	33867,58663	1 05579,41762	9,50620,49883,4746	9,52978,42504	42:36
	16,53047,25033	19,45636	6,24278	22,37446,7768	24,94233	
72	32094,36098,07209	33887,04299	1 05585,66040	9,50642,87330,2514	9,53003,36737	43:12
	16,52949,48533	19,45866	6,24674	22,36162,4320	24,93095	
73	32110,89047,55742	33906,50165	1 05591,90714	9,50665,23492,6834	9,53028,29832	43:48
	16,52851,66995	19,46097	6,25070	22,34879,4090	24,91960	
74	32127,41899,22737	33925,96262	1 05598,15784	9,50687,58372,0924	9,53053,21792	44:24
	16,52753,80425	19,46327	6,25466	22,33597,7059	24,90826	
75	32143,94653,03162	33945,42589	1 05604,41250	9,50709,91969,7983	9,53078,12618	45: 0
	16,52655,88818	19,46557	6,25861	22,32317,3206	24,89693	
76	32160,47308,91980	33964,89146	1 05610,67111	9,50732,24287,1189	9,53103,02311	45:36
	16,52557,92178	19,46788	6,26257	22,31038,2508	24,88561	
77	32176,99866,84158	33984,35934	1 05616,93368	9,50754,55325,3697	9,53127,90872	46:12
	16,52459,90503	19,47020	6,26653	22,29760,4944	24,87432	
78	32193,52326,74661	34003,82954	1 05623,20021	9,50776,85085,8641	9,53152,78304	46:48
	16,52361,83796	19,47250	6,27050	22,28484,0494	24,86302	
79	32210,04688,58457	34023,30204	1 05629,47071	9,50799,13569,9135	9,53177,64606	47:24
	16,52263,72054	19,47482	6,27445	22,27208,9138	24,85175	
80	32226,56952,30511	34042,77686	1 05635,74516	9,50821,40778,8273	9,53202,49781	48: 0
	16,52165,55280	19,47713	6,27842	22,25935,0854	24,84049	
81	32243,09117,85791	34062,25399	1 05642,02358	9,50843,66713,9127	9,53227,33830	48:36
	16,52067,33473	19,47944	6,28239	22,24662,5620	24,82923	
82	32259,61185,19264	34081,73343	1 05648,30597	9,50865,91376,4747	9,53252,16753	49:12
	16,51969,06632	19,48177	6,28635	22,23391,3416	24,81801	
83	32276,13154,25896	34101,21520	1 05654,59232	9,50888,14767,8163	9,53276,98554	49:48
	16,51870,74761	19,48408	6,29032	22,22121,4223	24,80678	
84	32292,65025,00657	34120,69928	1 05660,88264	9,50910,36889,2386	9,53301,79232	50:24
	16,51772,37858	19,48640	6,29428	22,20852,8017	24,79557	
85	32309,16797,38515	34140,18568	1 05667,17692	9,50932,57742,0403	9,53326,58789	51: 0
	16,51673,95922	19,48873	6,29826	22,19585,4781	24,78437	
86	32325,68471,34437	34159,67441	1 05673,47518	9,50954,77327,5184	9,53351,37226	51:36
	16,51575,48955	19,49105	6,30222	22,18319,4491	24,77319	
87	32342,20046,83392	34179,16546	1 05679,77740	9,50976,95646,9675	9,53376,14545	52:12
	16,51476,96958	19,49338	6,30620	22,17054,7128	24,76202	
88	32358,71523,80350	34198,65884	1 05686,08360	9,50999,12701,6803	9,53400,90747	52:48
	16,51378,39929	19,49570	6,31017	22,15791,2672	24,75087	
89	32375,22902,20279	34218,15454	1 05692,39377	9,51021,28492,9475	9,53425,65834	53:24
	16,51279,77870	19,49803	6,31414	22,14529,1101	24,73972	
90	32391,74181,98149	34237,65257	1 05698,70791	9,51043,43022,0576	9,53450,39806	54: 0
	16,51181,10782	19,50037	6,31812	22,13268,2395	24,72859	
91	32408,25363,08931	34257,15294	1 05705,02603	9,51065,56290,2971	9,53475,12665	54:36
	16,51082,38663	19,50269	6,32209	22,12008,6535	24,71747	
92	32424,76445,47594	34276,65563	1 05711,34812	9,51087,68298,9506	9,53499,84412	55:12
	16,50983,61516	19,50503	6,32607	22,10750,3499	24,70637	
93	32441,27429,09110	34296,16066	1 05717,67419	9,51109,79049,3005	9,53524,55049	55:48
	16,50884,79338	19,50736	6,33005	22,09493,3266	24,69528	
94	32457,78313,88448	34315,66802	1 05724,00424	9,51131,88542,6271	9,53549,24577	56:24
	16,50785,92131	19,50970	6,33402	22,08237,5819	24,68420	
95	32474,29099,80579	34335,17772	1 05730,33826	9,51153,96780,2090	9,53573,92997	57: 0
	16,50686,99897	19,51204	6,33801	22,06983,1133	24,67313	
96	32490,79786,80476	34354,68976	1 05736,67627	9,51176,03763,3223	9,53598,60310	57:36
	16,50588,02635	19,51438	6,34199	22,05729,9193	24,66208	
97	32507,30374,83111	34374,20414	1 05743,01826	9,51198,09493,2416	9,53623,26518	58:12
	16,50489,00343	19,51672	6,34597	22,04477,9974	24,65104	
98	32523,80863,83454	34393,72086	1 05749,36423	9,51220,13971,2390	9,53647,91622	58:48
	16,50389,93024	19,51906	6,34995	22,03227,3459	24,64001	
99	32540,31253,76478	34413,23992	1 05755,71418	9,51242,17198,5849	9,53672,55623	59:24
	16,50290,80679	19,52141	6,35394	22,01977,9627	24,62900	
100	32556,81544,57157	34432,76133	1 05762,06812	9,51264,19176,5476	9,53697,18523	60: 0
	16,50191,63305	19,52375	6,35792	22,00729,8458	24,61799	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	94737,80204,66135 5,58853,83521	2 95947,43623 170,22982	3 12385,79515 161,26724	9,97652,33047,1007 2,56195,8273	10,47121,45821 24,98794	19:48
32	94732,21350,82614 5,59142,40603	2 95777,20641 170,05417	3 12224,52791 161,09132	9,97649,76851,2734 2,56343,2429	10,47096,47027 24,97651	19:12
31	94726,62208,42011 5,59430,95982	2 95607,15224 169,87878	3 12063,43659 160,91568	9,97647,20508,0305 2,56490,6761	10,47071,49376 24,96510	18:36
30	94721,02777,46029 5,59719,49657	2 95437,27346 169,70368	3 11902,52091 160,74032	9,97644,64017,3544 2,56638,1265	10,47046,52866 24,95370	18: 0
29	94715,43057,96372 5,60008,01628	2 95267,56978 169,52886	3 11741,78059 160,56525	9,97642,07379,2279 2,56785,5945	10,47021,57496 24,94233	17:24
28	94709,83049,94744 5,60296,51891	2 95098,04092 169,35432	3 11581,21534 160,39045	9,97639,50593,6334 2,56933,0798	10,46996,63263 24,93095	16:48
27	94704,22753,42853 5,60585,00449	2 94928,68660 169,18006	3 11420,82489 160,21593	9,97636,93660,5536 2,57080,5826	10,46971,70168 24,91960	16:12
26	94698,62168,42404 5,60873,47298	2 94759,50654 169,00609	3 11260,60896 160,04169	9,97634,36579,9710 2,57228,1030	10,46946,78208 24,90826	15:36
25	94693,01294,95106 5,61161,92440	2 94590,50045 168,83237	3 11100,56727 159,86773	9,97631,79351,8680 2,57375,6406	10,46921,87382 24,89693	15: 0
24	94687,40133,02666 5,61450,35871	2 94421,66808 168,65896	3 10940,69954 159,69404	9,97629,21976,2274 2,57523,1960	10,46896,97689 24,88561	14:24
23	94681,78682,66795 5,61738,77594	2 94253,00912 168,48581	3 10781,00550 159,52065	9,97626,64453,0314 2,57670,7686	10,46872,09128 24,87432	13:48
22	94676,16943,89201 5,62027,17603	2 94084,52331 168,31293	3 10621,48485 159,34751	9,97624,06782,2628 2,57818,3590	10,46847,21696 24,86302	13:12
21	94670,54916,71598 5,62315,55902	2 93916,21038 168,14035	3 10462,13734 159,17466	9,97621,48963,9038 2,57965,9667	10,46822,35394 24,85175	12:36
20	94664,92601,15696 5,62603,92487	2 93748,07003 167,96802	3 10302,96268 159,00208	9,97618,90997,9371 2,58113,5920	10,46797,50219 24,84049	12: 0
19	94659,29997,23209 5,62892,27359	2 93580,10201 167,79598	3 10143,96060 158,82978	9,97616,32884,3451 2,58261,2349	10,46772,66170 24,82923	11:24
18	94653,67104,95850 5,63180,60515	2 93412,30603 167,62422	3 09985,13082 158,65776	9,97613,74623,1102 2,58408,8954	10,46747,83247 24,81801	10:48
17	94648,03924,35335 5,63468,91958	2 93244,68181 167,45271	3 09826,47306 158,48599	9,97611,16214,2148 2,58556,5733	10,46723,01446 24,80678	10:12
16	94642,40455,43377 5,63757,21682	2 93077,22910 167,28150	3 09667,98707 158,31452	9,97608,57657,6415 2,58704,2689	10,46698,20768 24,79557	9:36
15	94636,76698,21695 5,64045,49690	2 92909,94760 167,11055	3 09509,67255 158,14330	9,97605,98953,3726 2,58851,9821	10,46673,41211 24,78437	9: 0
14	94631,12652,72005 5,64333,75979	2 92742,83705 166,93987	3 09351,52925 157,97237	9,97603,40101,3905 2,58999,7129	10,46648,62774 24,77319	8:24
13	94625,48318,96026 5,64622,00550	2 92575,89718 166,76946	3 09193,55688 157,80171	9,97600,81101,6776 2,59147,4613	10,46623,85455 24,76202	7:48
12	94619,83696,95476 5,64910,23401	2 92409,12772 166,59933	3 09035,75517 157,63131	9,97598,21954,2163 2,59295,2274	10,46599,09253 24,75087	7:12
11	94614,18786,72075 5,65198,44530	2 92242,52839 166,42946	3 08878,12386 157,46118	9,97595,62658,9889 2,59443,0111	10,46574,34166 24,73972	6:36
10	94608,53588,27545 5,65486,63938	2 92076,09893 166,25987	3 08720,66268 157,29133	9,97593,03215,9778 2,59590,8124	10,46549,60194 24,72859	6: 0
9	94602,88101,63607 5,65774,81623	2 91909,83906 166,09054	3 08563,37135 157,12174	9,97590,43625,1654 2,59738,6314	10,46524,87335 24,71747	5:24
8	94597,22326,81984 5,66062,97586	2 91743,74852 165,92149	3 08406,24961 156,95242	9,97587,83886,5340 2,59886,4681	10,46500,15588 24,70637	4:48
7	94591,56263,84398 5,66351,11823	2 91577,82703 165,75270	3 08249,29719 156,78338	9,97585,24000,0659 2,60034,3225	10,46475,44951 24,69528	4:12
6	94585,89912,72575 5,66639,24336	2 91412,07433 165,58417	3 08092,51381 156,61459	9,97582,63965,7434 2,60182,1947	10,46450,75423 24,68420	3:36
5	94580,23273,48239 5,66927,35122	2 91246,49016 165,41593	3 07935,89922 156,44608	9,97580,03783,5487 2,60330,0844	10,46426,07003 24,67313	3: 0
4	94574,56346,13117 5,67215,44182	2 91081,07423 165,24793	3 07779,45314 156,27782	9,97577,43453,4643 2,60477,9921	10,46401,39690 24,66208	2:24
3	94568,89130,68935 5,67503,51513	2 90915,82630 165,08021	3 07623,17532 156,10985	9,97574,82975,4722 2,60625,9173	10,46376,73482 24,65104	1:48
2	94563,21627,17422 5,67791,57116	2 90750,74609 164,91276	3 07467,06547 155,94212	9,97572,22349,5549 2,60773,8603	10,46352,08378 24,64001	1:12
1	94557,53835,60306 5,68079,60989	2 90585,83333 164,74556	3 07311,12335 155,77467	9,97569,61575,6946 2,60921,8212	10,46327,44377 24,62900	0:36
0	94551,85755,99317 5,68367,63132	2 90421,08777 164,57864	3 07155,34868 155,60749	9,97567,00653,8734 2,61069,7998	10,46302,81477 24,61799	0: 0

GRAD. 71.

19. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	32556,81544,57157 16,50191,63305	34432,76133 19,52375	1 05762,06812 6,35792	9,51264,19176,5476 22,00729,8458	9,53697,18523 24,61799	0: 0
1	32573,31736,20462 16,50092,40906	34452,28508 19,52611	1 05768,42604 6,36191	9,51286,19906,3934 21,99482,9932	9,53721,80322 24,60701	0:36
2	32589,81828,61368 16,49993,13479	34471,81119 19,52845	1 05774,78795 6,36590	9,51308,19389,3866 21,98237,4029	9,53746,41023 24,59603	1:12
3	32606,31821,74847 16,49893,81026	34491,33964 19,53080	1 05781,15385 6,36989	9,51330,17626,7895 21,96993,0728	9,53771,00626 24,58507	1:48
4	32622,81715,55873 16,49794,43549	34510,87044 19,53316	1 05787,52374 6,37388	9,51352,14619,8623 21,95750,0011	9,53795,59133 24,57412	2:24
5	32639,31509,99422 16,49695,01044	34530,40360 19,53551	1 05793,89762 6,37786	9,51374,10369,8634 21,94508,1858	9,53820,16545 24,56318	3: 0
6	32655,81205,00466 16,49595,53515	34549,93911 19,53787	1 05800,27548 6,38187	9,51396,04878,0492 21,93267,6247	9,53844,72863 24,55226	3:36
7	32672,30800,53981 16,49496,00961	34569,47698 19,54022	1 05806,65735 6,38585	9,51417,98145,6739 21,92028,3161	9,53869,28089 24,54134	4:12
8	32688,80296,54942 16,49396,43383	34589,01720 19,54259	1 05813,04320 6,38985	9,51439,90173,9900 21,90790,2579	9,53893,82223 24,53045	4:48
9	32705,29692,98325 16,49296,80779	34608,55979 19,54494	1 05819,43305 6,39384	9,51461,80964,2479 21,89553,4481	9,53918,35268 24,51956	5:24
10	32721,78989,79104 16,49197,13152	34628,10473 19,54731	1 05825,82689 6,39784	9,51483,70517,6960 21,88317,8848	9,53942,87224 24,50868	6: 0
11	32738,28186,92256 16,49097,40501	34647,65204 19,54967	1 05832,22473 6,40184	9,51505,58835,5808 21,87083,5661	9,53967,38092 24,49783	6:36
12	32754,77284,32757 16,48997,62827	34667,20171 19,55204	1 05838,62657 6,40584	9,51527,45919,1469 21,85850,4898	9,53991,87875 24,48697	7:12
13	32771,26281,95584 16,48897,80129	34686,75375 19,55441	1 05845,03241 6,40984	9,51549,31769,6367 21,84618,6542	9,54016,36572 24,47614	7:48
14	32787,75179,75713 16,48797,92409	34706,30816 19,55677	1 05851,44225 6,41384	9,51571,16388,2909 21,83388,0573	9,54040,84186 24,46531	8:24
15	32804,23977,68122 16,48697,99666	34725,86493 19,55915	1 05857,85609 6,41784	9,51592,99776,3482 21,82158,6971	9,54065,30717 24,45451	9: 0
16	32820,72675,67788 16,48598,01901	34745,42408 19,56152	1 05864,27393 6,42184	9,51614,81935,0453 21,80930,5717	9,54089,76168 24,44370	9:36
17	32837,21273,69689 16,48497,99113	34764,98560 19,56389	1 05870,69577 6,42585	9,51636,62865,6170 21,79703,6791	9,54114,20538 24,43292	10:12
18	32853,69771,68802 16,48397,91306	34784,54949 19,56627	1 05877,12162 6,42986	9,51658,42569,2961 21,78478,0175	9,54138,63830 24,42214	10:48
19	32870,18169,60108 16,48297,78475	34804,11576 19,56864	1 05883,55148 6,43386	9,51680,21047,3136 21,77253,5849	9,54163,06044 24,41139	11:24
20	32886,66467,38583 16,48197,60625	34823,68440 19,57103	1 05889,98534 6,43787	9,51701,98300,8985 21,76030,3793	9,54187,47183 24,40063	12: 0
21	32903,14664,99208 16,48097,37753	34843,25543 19,57340	1 05896,42321 6,44188	9,51723,74331,2778 21,74808,3989	9,54211,87246 24,38990	12:36
22	32919,62762,36961 16,47997,09861	34862,82883 19,57579	1 05902,86509 6,44589	9,51745,49139,6767 21,73587,6418	9,54236,26236 24,37918	13:12
23	32936,10759,46822 16,47896,76948	34882,40462 19,57817	1 05909,31098 6,44990	9,51767,22727,3185 21,72368,1060	9,54260,64154 24,36846	13:48
24	32952,58656,23770 16,47796,39017	34901,98279 19,58055	1 05915,76088 6,45391	9,51788,95095,4245 21,71149,7896	9,54285,01000 24,35776	14:24
25	32969,06452,62787 16,47695,96066	34921,56334 19,58294	1 05922,21479 6,45793	9,51810,66245,2141 21,69932,6907	9,54309,36776 24,34708	15: 0
26	32985,54148,58853 16,47595,48095	34941,14628 19,58534	1 05928,67272 6,46194	9,51832,36177,9048 21,68716,8076	9,54333,71484 24,33640	15:36
27	33002,01744,06948 16,47494,95106	34960,73162 19,58772	1 05935,13466 6,46596	9,51854,04894,7124 21,67502,1380	9,54358,05124 24,32575	16:12
28	33018,49239,02054 16,47394,37097	34980,31934 19,59011	1 05941,60062 6,46997	9,51875,72396,8504 21,66288,6804	9,54382,37699 24,31509	16:48
29	33034,96633,39151 16,47293,74072	34999,90945 19,59251	1 05948,07059 6,47399	9,51897,38685,5308 21,65076,4326	9,54406,69208 24,30445	17:24
30	33051,43927,13223 16,47193,06028	35019,50196 19,59490	1 05954,54458 6,47801	9,51919,03761,9634 21,63865,3931	9,54430,99653 24,29383	18: 0
31	33067,91120,19251 16,47092,32965	35039,09686 19,59730	1 05961,02259 6,48203	9,51940,67627,3565 21,62655,5596	9,54455,29036 24,28322	18:36
32	33084,38212,52216 16,46991,54887	35058,69416 19,59970	1 05967,50462 6,48606	9,51962,30282,9161 21,61446,9306	9,54479,57358 24,27261	19:12
33	33100,85204,07103 16,46890,71790	35078,29386 19,60209	1 05973,99068 6,49007	9,51983,91729,8467 21,60239,5039	9,54503,84619 24,26203	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	94551,85755,99317 5,68367,63132	2 90421,08777 164,57864	3 07155,34868 155,60749	9,97567,00653,8734 2,61069,7998	10,46302,81477 24,61799	60: 0
99	94546,17388,36185 5,68655,63544	2 90256,50913 164,41197	3 06999,74119 155,44055	9,97564,39584,0736 2,61217,7962	10,46278,19678 24,60701	59:24
98	94540,48732,72641 5,68943,62223	2 90092,09716 164,24557	3 06844,30064 155,27389	9,97561,78366,2774 2,61365,8104	10,46253,58977 24,59603	58:48
97	94534,79789,10418 5,69231,59169	2 89927,85159 164,07943	3 06689,02675 155,10749	9,97559,17000,4670 2,61513,8424	10,46228,99374 24,58507	58:12
96	94529,10557,51249 5,69519,54381	2 89763,77216 163,91355	3 06533,91926 154,94135	9,97556,55486,6246 2,61661,8922	10,46204,40867 24,57412	57:36
95	94523,41037,96868 5,69807,47858	2 89599,85861 163,74794	3 06378,97791 154,77547	9,97553,93824,7324 2,61809,9600	10,46179,83455 24,56318	57: 0
94	94517,71230,49010 5,70095,39600	2 89436,11067 163,58258	3 06224,20244 154,60986	9,97551,32014,7724 2,61958,0454	10,46155,27137 24,55226	56:24
93	94512,01135,09410 5,70383,29605	2 89272,52809 163,41749	3 06069,59258 154,44449	9,97548,70056,7270 2,62106,1489	10,46130,71911 24,54134	55:48
92	94506,30751,79805 5,70671,17873	2 89109,11060 163,25266	3 05915,14809 154,27940	9,97546,07950,5781 2,62254,2701	10,46106,17777 24,53045	55:12
91	94500,60080,61932 5,70959,04401	2 88945,85794 163,08808	3 05760,86869 154,11456	9,97543,45696,3080 2,62402,4093	10,46081,64732 24,51956	54:36
90	94494,89121,57531 5,71246,89192	2 88782,76986 162,92376	3 05606,75413 153,94998	9,97540,83293,8987 2,62550,5664	10,46057,12776 24,50868	54: 0
89	94489,17874,68339 5,71534,72241	2 88619,84610 162,75970	3 05452,80415 153,78566	9,97538,20743,3323 2,62698,7414	10,46032,61908 24,49783	53:24
88	94483,46339,96098 5,71822,53550	2 88457,08640 162,59591	3 05299,01849 153,62159	9,97535,58044,5909 2,62846,9343	10,46008,12125 24,48697	52:48
87	94477,74517,42548 5,72110,33117	2 88294,49049 162,43235	3 05145,39690 153,45778	9,97532,95197,6566 2,62995,1452	10,45983,63428 24,47614	52:12
86	94472,02407,09431 5,72398,10941	2 88132,05814 162,26907	3 04991,93912 153,29424	9,97530,32202,5114 2,63143,3739	10,45959,15814 24,46531	51:36
85	94466,30008,98490 5,72685,87021	2 87969,78907 162,10604	3 04838,64488 153,13093	9,97527,69059,1375 2,63291,6207	10,45934,69283 24,45451	51: 0
84	94460,57323,11469 5,72973,61357	2 87807,68303 161,94327	3 04685,51395 152,96790	9,97525,05767,5168 2,63439,8855	10,45910,23832 24,44370	50:24
83	94454,84349,50112 5,73261,33949	2 87645,73976 161,78074	3 04532,54605 152,80511	9,97522,42327,6313 2,63588,1682	10,45885,79462 24,43292	49:48
82	94449,11088,16163 5,73549,04792	2 87483,95902 161,61847	3 04379,74094 152,64258	9,97519,78739,4631 2,63736,4689	10,45861,36170 24,42214	49:12
81	94443,37539,11371 5,73836,73890	2 87322,34055 161,45646	3 04227,09836 152,48030	9,97517,15002,9942 2,63884,7877	10,45836,93956 24,41139	48:36
80	94437,63702,37481 5,74124,41239	2 87160,88409 161,29471	3 04074,61806 152,31828	9,97514,51118,2065 2,64033,1245	10,45812,52817 24,40063	48: 0
79	94431,89577,96242 5,74412,06839	2 86999,58938 161,13319	3 03922,29978 152,15650	9,97511,87085,0820 2,64181,4793	10,45788,12754 24,38990	47:24
78	94426,15165,89403 5,74699,70690	2 86838,45619 160,97194	3 03770,14328 151,99498	9,97509,22903,6027 2,64329,8521	10,45763,73764 24,37918	46:48
77	94420,40466,18713 5,74987,32790	2 86677,48425 160,81094	3 03618,14830 151,83372	9,97506,58573,7506 2,64478,2430	10,45739,35846 24,36846	46:12
76	94414,65478,85923 5,75274,93139	2 86516,67331 160,65018	3 03466,31458 151,67270	9,97503,94095,5076 2,64626,6521	10,45714,99000 24,35776	45:36
75	94408,90203,92784 5,75562,51734	2 86356,02313 160,48969	3 03314,64188 151,51193	9,97501,29468,8555 2,64775,0791	10,45690,63224 24,34708	45: 0
74	94403,14641,41050 5,75850,08578	2 86195,53344 160,32943	3 03163,12995 151,35141	9,97498,64693,7764 2,64923,5243	10,45666,28516 24,33640	44:24
73	94397,38791,32472 5,76137,63666	2 86035,20401 160,16943	3 03011,77854 151,19115	9,97495,99770,2521 2,65071,9876	10,45641,94876 24,32575	43:48
72	94391,62653,68806 5,76425,16999	2 85875,03458 160,00968	3 02860,58739 151,03113	9,97493,34698,2645 2,65220,4691	10,45617,62301 24,31509	43:12
71	94385,86228,51807 5,76712,68578	2 85715,02490 159,85018	3 02709,55626 150,87136	9,97490,69477,7954 2,65368,9685	10,45593,30792 24,30445	42:36
70	94380,09515,83229 5,77000,18398	2 85555,17472 159,69092	3 02558,68490 150,71184	9,97488,04108,8269 2,65517,4863	10,45569,00347 24,29383	42: 0
69	94374,32515,64831 5,77287,66462	2 85395,48380 159,53192	3 02407,97306 150,55256	9,97485,38591,3406 2,65666,0222	10,45544,70964 24,28322	41:24
68	94368,55227,98369 5,77575,12766	2 85235,95188 159,37315	3 02257,42050 150,39354	9,97482,72925,3184 2,65814,5762	10,45520,42642 24,27261	40:48
67	94362,77652,85603 5,77862,57312	2 85076,57873 159,21464	3 02107,02696 150,23475	9,97480,07110,7422 2,65963,1484	10,45496,15381 24,26203	40:12

GRAD. 70.

19. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	33100,85204,07103 16,46890,71790	35078,29386 19,60209	1 05973,99068 6,49007	9,51983,91729,8467 21,60239,5039	9,54503,84619 24,26203	19:48
34	33117,32094,78893 16,46789,83678	35097,89595 19,60450	1 05980,48075 6,49410	9,52005,51969,3506 21,59033,2778	9,54528,10822 24,25145	20:24
35	33133,78884,62571 16,46688,90548	35117,50045 19,60690	1 05986,97485 6,49812	9,52027,11002,6284 21,57828,2505	9,54552,35967 24,24088	21: 0
36	33150,25573,53119 16,46587,92403	35137,10735 19,60931	1 05993,47297 6,50215	9,52048,68830,8789 21,56624,4200	9,54576,60055 24,23034	21:36
37	33166,72161,45522 16,46486,89242	35156,71666 19,61171	1 05999,97512 6,50618	9,52070,25455,2989 21,55421,7846	9,54600,83089 24,21979	22:12
38	33183,18648,34764 16,46385,81066	35176,32837 19,61413	1 06006,48130 6,51021	9,52091,80877,0835 21,54220,3422	9,54625,05068 24,20927	22:48
39	33199,65034,15830 16,46284,67873	35195,94250 19,61653	1 06012,99151 6,51423	9,52113,35097,4257 21,53020,0912	9,54649,25995 24,19875	23:24
40	33216,11318,83703 16,46183,49667	35215,55903 19,61894	1 06019,50574 6,51827	9,52134,88117,5169 21,51821,0296	9,54673,45870 24,18825	24: 0
41	33232,57502,33370 16,46082,26446	35235,17797 19,62136	1 06026,02401 6,52229	9,52156,39938,5465 21,50623,1557	9,54697,64695 24,17775	24:36
42	33249,03584,59816 16,45980,98210	35254,79933 19,62377	1 06032,54630 6,52633	9,52177,90561,7022 21,49426,4676	9,54721,82470 24,16728	25:12
43	33265,49565,58026 16,45879,64961	35274,42310 19,62619	1 06039,07263 6,53037	9,52199,39988,1698 21,48230,9633	9,54745,99198 24,15681	25:48
44	33281,95445,22987 16,45778,26697	35294,04929 19,62860	1 06045,60300 6,53440	9,52220,88219,1331 21,47036,6413	9,54770,14879 24,14635	26:24
45	33298,41223,49684 16,45676,83422	35313,67789 19,63103	1 06052,13740 6,53843	9,52242,35255,7744 21,45843,4996	9,54794,29514 24,13591	27: 0
46	33314,86900,33106 16,45575,35131	35333,30892 19,63345	1 06058,67583 6,54247	9,52263,81099,2740 21,44651,5362	9,54818,43105 24,12548	27:36
47	33331,32475,68237 16,45473,81830	35352,94237 19,63587	1 06065,21830 6,54652	9,52285,25750,8102 21,43460,7496	9,54842,55653 24,11505	28:12
48	33347,77949,50067 16,45372,23515	35372,57824 19,63829	1 06071,76482 6,55055	9,52306,69211,5598 21,42271,1378	9,54866,67158 24,10465	28:48
49	33364,23321,73582 16,45270,60189	35392,21653 19,64072	1 06078,31537 6,55459	9,52328,11482,6976 21,41082,6990	9,54890,77623 24,09426	29:24
50	33380,68592,33771 16,45168,91850	35411,85725 19,64315	1 06084,86996 6,55863	9,52349,52565,3966 21,39895,4316	9,54914,87049 24,08387	30: 0
51	33397,13761,25621 16,45067,18500	35431,50040 19,64558	1 06091,42859 6,56268	9,52370,92460,8282 21,38709,3334	9,54938,95436 24,07350	30:36
52	33413,58828,44121 16,44965,40140	35451,14598 19,64801	1 06097,99127 6,56672	9,52392,31170,1616 21,37524,4030	9,54963,02786 24,06314	31:12
53	33430,03793,84261 16,44863,56767	35470,79399 19,65044	1 06104,55799 6,57077	9,52413,68694,5646 21,36340,6383	9,54987,09100 24,05279	31:48
54	33446,48657,41028 16,44761,68385	35490,44443 19,65288	1 06111,12876 6,57481	9,52435,05035,2029 21,35158,0377	9,55011,14379 24,04245	32:24
55	33462,93419,09413 16,44659,74993	35510,09731 19,65531	1 06117,70357 6,57886	9,52456,40193,2406 21,33976,5994	9,55035,18624 24,03213	33: 0
56	33479,38078,84406 16,44557,76589	35529,75262 19,65776	1 06124,28243 6,58291	9,52477,74169,8400 21,32796,3215	9,55059,21837 24,02182	33:36
57	33495,82636,60995 16,44455,73178	35549,41038 19,66019	1 06130,86534 6,58696	9,52499,06966,1615 21,31617,2023	9,55083,24019 24,01152	34:12
58	33512,27092,34173 16,44353,64756	35569,07057 19,66263	1 06137,45230 6,59101	9,52520,38583,3638 21,30439,2400	9,55107,25171 24,00122	34:48
59	33528,71445,98929 16,44251,51326	35588,73320 19,66507	1 06144,04331 6,59507	9,52541,69022,6038 21,29262,4329	9,55131,25293 23,99095	35:24
60	33545,15697,50255 16,44149,32887	35608,39827 19,66752	1 06150,63838 6,59911	9,52562,98285,0367 21,28086,7791	9,55155,24388 23,98068	36: 0
61	33561,59846,83142 16,44047,09439	35628,06579 19,66997	1 06157,23749 6,60317	9,52584,26371,8158 21,26912,2769	9,55179,22456 23,97043	36:36
62	33578,03893,92581 16,43944,80983	35647,73576 19,67241	1 06163,84066 6,60723	9,52605,53284,0927 21,25738,9246	9,55203,19499 23,96019	37:12
63	33594,47838,73564 16,43842,47520	35667,40817 19,67486	1 06170,44789 6,61129	9,52626,79023,0173 21,24566,7204	9,55227,15518 23,94995	37:48
64	33610,91681,21084 16,43740,09050	35687,08303 19,67732	1 06177,05918 6,61534	9,52648,03589,7377 21,23395,6624	9,55251,10513 23,93974	38:24
65	33627,35421,30134 16,43637,65571	35706,76035 19,67976	1 06183,67452 6,61940	9,52669,26985,4001 21,22225,7490	9,55275,04487 23,92953	39: 0
66	33643,79058,95705 16,43535,17087	35726,44011 19,68222	1 06190,29392 6,62346	9,52690,49211,1491 21,21056,9784	9,55298,97440 23,91933	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	94362,77652,85603 5,77862,57312	2 85076,57873 159,21464	3 02107,02696 150,23475	9,97480,07110,7422 2,65963,1484	10,45496,15381 24,26203	40:12
66	94356,99790,28291 5,78150,00097	2 84917,36409 159,05637	3 01956,79221 150,07622	9,97477,41147,5938 2,66111,7388	10,45471,89178 24,25145	39:36
65	94351,21640,28194 5,78437,41122	2 84758,30772 158,89835	3 01806,71599 149,91793	9,97474,75035,8550 2,66260,3475	10,45447,64033 24,24088	39: 0
64	94345,43202,87072 5,78724,80383	2 84599,40937 158,74057	3 01656,79806 149,75988	9,97472,08775,5075 2,66408,9744	10,45423,39945 24,23034	38:24
63	94339,64478,06689 5,79012,17882	2 84440,66880 158,58303	3 01507,03818 149,60209	9,97469,42366,5331 2,66557,6194	10,45399,16911 24,21979	37:48
62	94333,85465,88807 5,79299,53618	2 84282,08577 158,42575	3 01357,43609 149,44453	9,97466,75808,9137 2,66706,2827	10,45374,94932 24,20927	37:12
61	94328,06166,35189 5,79586,87588	2 84123,66002 158,26871	3 01207,99156 149,28721	9,97464,09102,6310 2,66854,9644	10,45350,74005 24,19875	36:36
60	94322,26579,47601 5,79874,19793	2 83965,39131 158,11190	3 01058,70435 149,13015	9,97461,42247,6666 2,67003,6643	10,45326,54130 24,18825	36: 0
59	94316,46705,27808 5,80161,50233	2 83807,27941 157,95534	3 00909,57420 148,97331	9,97458,75244,0023 2,67152,3824	10,45302,35305 24,17775	35:24
58	94310,66543,77575 5,80448,78903	2 83649,32407 157,79902	3 00760,60089 148,81673	9,97456,08091,6199 2,67301,1188	10,45278,17530 24,16728	34:48
57	94304,86094,98672 5,80736,05808	2 83491,52505 157,64295	3 00611,78416 148,66039	9,97453,40790,5011 2,67449,8736	10,45254,00802 24,15681	34:12
56	94299,05358,92864 5,81023,30941	2 83333,88210 157,48711	3 00463,12377 148,50428	9,97450,73340,6275 2,67598,6467	10,45229,85121 24,14635	33:36
55	94293,24335,61923 5,81310,54306	2 83176,39499 157,33152	3 00314,61949 148,34842	9,97448,05741,9808 2,67747,4382	10,45205,70486 24,13591	33: 0
54	94287,43025,07617 5,81597,75899	2 83019,06347 157,17616	3 00166,27107 148,19279	9,97445,37994,5426 2,67896,2479	10,45181,56895 24,12548	32:24
53	94281,61427,31718 5,81884,95722	2 82861,88731 157,02105	3 00018,07828 148,03741	9,97442,70098,2947 2,68045,0760	10,45157,44347 24,11505	31:48
52	94275,79542,35996 5,82172,13771	2 82704,86626 156,86617	2 99870,04087 147,88227	9,97440,02053,2187 2,68193,9226	10,45133,32842 24,10465	31:12
51	94269,97370,22225 5,82459,30047	2 82548,00009 156,71153	2 99722,15860 147,72736	9,97437,33859,2961 2,68342,7874	10,45109,22377 24,09426	30:36
50	94264,14910,92178 5,82746,44548	2 82391,28856 156,55713	2 99574,43124 147,57269	9,97434,65516,5087 2,68491,6707	10,45085,12951 24,08387	30: 0
49	94258,32164,47630 5,83033,57276	2 82234,73143 156,40298	2 99426,85855 147,41826	9,97431,97024,8380 2,68640,5724	10,45061,04564 24,07350	29:24
48	94252,49130,90354 5,83320,68226	2 82078,32845 156,24904	2 99279,44029 147,26406	9,97429,28384,2656 2,68789,4926	10,45036,97214 24,06314	28:48
47	94246,65810,22128 5,83607,77400	2 81922,07941 156,09536	2 99132,17623 147,11011	9,97426,59594,7730 2,68938,4311	10,45012,90900 24,05279	28:12
46	94240,82202,44728 5,83894,84796	2 81765,98405 155,94191	2 98985,06612 146,95638	9,97423,90656,3419 2,69087,3881	10,44988,85621 24,04245	27:36
45	94234,98307,59932 5,84181,90413	2 81610,04214 155,78869	2 98838,10974 146,80290	9,97421,21568,9538 2,69236,3635	10,44964,81376 24,03213	27: 0
44	94229,14125,69519 5,84468,94251	2 81454,25345 155,63571	2 98691,30684 146,64964	9,97418,52332,5903 2,69385,3575	10,44940,78163 24,02182	26:24
43	94223,29656,75268 5,84755,96308	2 81298,61774 155,48297	2 98544,65720 146,49663	9,97415,82947,2328 2,69534,3699	10,44916,75981 24,01152	25:48
42	94217,44900,78960 5,85042,96585	2 81143,13477 155,33045	2 98398,16057 146,34385	9,97413,13412,8629 2,69683,4008	10,44892,74829 24,00122	25:12
41	94211,59857,82375 5,85329,95078	2 80987,80432 155,17817	2 98251,81672 146,19130	9,97410,43729,4621 2,69832,4502	10,44868,74707 23,99095	24:36
40	94205,74527,87297 5,85616,91790	2 80832,62615 155,02613	2 98105,62542 146,03898	9,97407,73897,0119 2,69981,5182	10,44844,75612 23,98068	24: 0
39	94199,88910,95507 5,85903,86716	2 80677,60002 154,87431	2 97959,58644 145,88689	9,97405,03915,4937 2,70130,6047	10,44820,77544 23,97043	23:24
38	94194,03007,08791 5,86190,79859	2 80522,72571 154,72274	2 97813,69955 145,73505	9,97402,33784,8890 2,70279,7097	10,44796,80501 23,96019	22:48
37	94188,16816,28932 5,86477,71216	2 80368,00297 154,57139	2 97667,96450 145,58343	9,97399,63505,1793 2,70428,8333	10,44772,84482 23,94995	22:12
36	94182,30338,57716 5,86764,60786	2 80213,43158 154,42027	2 97522,38107 145,43203	9,97396,93076,3460 2,70577,9754	10,44748,89487 23,93974	21:36
35	94176,43573,96930 5,87051,48568	2 80059,01131 154,26938	2 97376,94904 145,28088	9,97394,22498,3706 2,70727,1362	10,44724,95513 23,92953	21: 0
34	94170,56522,48362 5,87338,34563	2 79904,74193 154,11873	2 97231,66816 145,12996	9,97391,51771,2344 2,70876,3155	10,44701,02560 23,91933	20:24

GRAD. 70.

19. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	33660,22594,12792	35746,12233	1 06196,91738	9,52711,70268,1275	9,55322,89373	40:12
	16,43432,63596	19,68468	6,62753	21,19889,3491	23,90915	
68	33676,66026,76388	35765,80701	1 06203,54491	9,52732,90157,4766	9,55346,80288	40:48
	16,43330,05099	19,68714	6,63159	21,18722,8588	23,89898	
69	33693,09356,81487	35785,49415	1 06210,17650	9,52754,08880,3354	9,55370,70186	41:24
	16,43227,41595	19,68959	6,63565	21,17557,5064	23,88881	
70	33709,52584,23082	35805,18374	1 06216,81215	9,52775,26437,8418	9,55394,59067	42: 0
	16,43124,73087	19,69205	6,63971	21,16393,2896	23,87867	
71	33725,95708,96169	35824,87579	1 06223,45186	9,52796,42831,1314	9,55418,46934	42:36
	16,43021,99572	19,69452	6,64379	21,15230,2072	23,86852	
72	33742,38730,95741	35844,57031	1 06230,09565	9,52817,58061,3386	9,55442,33786	43:12
	16,42919,21054	19,69698	6,64785	21,14068,2570	23,85840	
73	33758,81650,16795	35864,26729	1 06236,74350	9,52838,72129,5956	9,55466,19626	43:48
	16,42816,37530	19,69945	6,65191	21,12907,4376	23,84829	
74	33775,24466,54325	35883,96674	1 06243,39541	9,52859,85037,0332	9,55490,04455	44:24
	16,42713,49002	19,70192	6,65599	21,11747,7471	23,83818	
75	33791,67180,03327	35903,66866	1 06250,05140	9,52880,96784,7803	9,55513,88273	45: 0
	16,42610,55470	19,70438	6,66006	21,10589,1838	23,82809	
76	33808,09790,58797	35923,37304	1 06256,71146	9,52902,07373,9641	9,55537,71082	45:36
	16,42507,56935	19,70686	6,66413	21,09431,7462	23,81801	
77	33824,52298,15732	35943,07990	1 06263,37559	9,52923,16805,7103	9,55561,52883	46:12
	16,42404,53396	19,70933	6,66821	21,08275,4322	23,80794	
78	33840,94702,69128	35962,78923	1 06270,04380	9,52944,25081,1425	9,55585,33677	46:48
	16,42301,44854	19,71180	6,67228	21,07120,2405	23,79788	
79	33857,37004,13982	35982,50103	1 06276,71608	9,52965,32201,3830	9,55609,13465	47:24
	16,42198,31309	19,71428	6,67635	21,05966,1692	23,78784	
80	33873,79202,45291	36002,21531	1 06283,39243	9,52986,38167,5522	9,55632,92249	48: 0
	16,42095,12763	19,71676	6,68044	21,04813,2165	23,77780	
81	33890,21297,58054	36021,93207	1 06290,07287	9,53007,42980,7687	9,55656,70029	48:36
	16,41991,89213	19,71923	6,68451	21,03661,3809	23,76777	
82	33906,63289,47267	36041,65130	1 06296,75738	9,53028,46642,1496	9,55680,46806	49:12
	16,41888,60662	19,72172	6,68859	21,02510,6606	23,75777	
83	33923,05178,07929	36061,37302	1 06303,44597	9,53049,49152,8102	9,55704,22583	49:48
	16,41785,27109	19,72420	6,69266	21,01361,0540	23,74776	
84	33939,46963,35038	36081,09722	1 06310,13863	9,53070,50513,8642	9,55727,97359	50:24
	16,41681,88556	19,72668	6,69676	21,00212,5592	23,73777	
85	33955,88645,23594	36100,82390	1 06316,83539	9,53091,50726,4234	9,55751,71136	51: 0
	16,41578,45001	19,72917	6,70083	20,99065,1749	23,72780	
86	33972,30223,68595	36120,55307	1 06323,53622	9,53112,49791,5983	9,55775,43916	51:36
	16,41474,96447	19,73166	6,70492	20,97918,8989	23,71782	
87	33988,71698,65042	36140,28473	1 06330,24114	9,53133,47710,4972	9,55799,15698	52:12
	16,41371,42891	19,73415	6,70900	20,96773,7301	23,70787	
88	34005,13070,07933	36160,01888	1 06336,95014	9,53154,44484,2273	9,55822,86485	52:48
	16,41267,84336	19,73664	6,71309	20,95629,6663	23,69793	
89	34021,54337,92269	36179,75552	1 06343,66323	9,53175,40113,8936	9,55846,56278	53:24
	16,41164,20781	19,73913	6,71718	20,94486,7063	23,68799	
90	34037,95502,13050	36199,49465	1 06350,38041	9,53196,34600,5999	9,55870,25077	54: 0
	16,41060,52227	19,74162	6,72126	20,93344,8480	23,67807	
91	34054,36562,65277	36219,23627	1 06357,10167	9,53217,27945,4479	9,55893,92884	54:36
	16,40956,78675	19,74412	6,72536	20,92204,0901	23,66816	
92	34070,77519,43952	36238,98039	1 06363,82703	9,53238,20149,5380	9,55917,59700	55:12
	16,40853,00122	19,74662	6,72944	20,91064,4306	23,65826	
93	34087,18372,44074	36258,72701	1 06370,55647	9,53259,11213,9686	9,55941,25526	55:48
	16,40749,16573	19,74912	6,73354	20,89925,8683	23,64838	
94	34103,59121,60647	36278,47613	1 06377,29001	9,53280,01139,8369	9,55964,90364	56:24
	16,40645,28025	19,75162	6,73764	20,88788,4010	23,63849	
95	34119,99766,88672	36298,22775	1 06384,02765	9,53300,89928,2379	9,55988,54213	57: 0
	16,40541,34479	19,75413	6,74172	20,87652,0275	23,62863	
96	34136,40308,23151	36317,98188	1 06390,76937	9,53321,77580,2654	9,56012,17076	57:36
	16,40437,35936	19,75662	6,74582	20,86516,7460	23,61877	
97	34152,80745,59087	36337,73850	1 06397,51519	9,53342,64097,0114	9,56035,78953	58:12
	16,40333,32396	19,75914	6,74992	20,85382,5548	23,60892	
98	34169,21078,91483	36357,49764	1 06404,26511	9,53363,49479,5662	9,56059,39845	58:48
	16,40229,23860	19,76164	6,75402	20,84249,4522	23,59910	
99	34185,61308,15343	36377,25928	1 06411,01913	9,53384,33729,0184	9,56082,99755	59:24
	16,40125,10326	19,76415	6,75812	20,83117,4368	23,58927	
100	34202,01433,25669	36397,02343	1 06417,77725	9,53405,16846,4552	9,56106,58682	60: 0
	16,40020,91796	19,76666	6,76221	20,81986,5067	23,57946	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	94164,69184,13799 5,87625,18769	2 79750,62320 153,96830	2 97086,53820 144,97925	9,97388,80894,9189 2,71025,5135	10,44677,10627 23,90915	19:48
32	94158,81558,95030 5,87912,01184	2 79596,65490 153,81811	2 96941,55895 144,82879	9,97386,09869,4054 2,71174,7301	10,44653,19712 23,89898	19:12
31	94152,93646,93846 5,88198,81808	2 79442,83679 153,66814	2 96796,73016 144,67855	9,97383,38694,6753 2,71323,9653	10,44629,29814 23,88881	18:36
30	94147,05448,12038 5,88485,60641	2 79289,16865 153,51840	2 96652,05161 144,52853	9,97380,67370,7100 2,71473,2191	10,44605,40933 23,87867	18: 0
29	94141,16962,51397 5,88772,37681	2 79135,65025 153,36889	2 96507,52308 144,37876	9,97377,95897,4909 2,71622,4917	10,44581,53066 23,86852	17:24
28	94135,28190,13716 5,89059,12928	2 78982,28136 153,21961	2 96363,14432 144,22920	9,97375,24274,9992 2,71771,7829	10,44557,66214 23,85840	16:48
27	94129,39131,00788 5,89345,86380	2 78829,06175 153,07055	2 96218,91512 144,07987	9,97372,52503,2163 2,71921,0927	10,44533,80374 23,84829	16:12
26	94123,49785,14408 5,89632,58037	2 78675,99120 152,92172	2 96074,83525 143,93076	9,97369,80582,1236 2,72070,4213	10,44509,95545 23,83818	15:36
25	94117,60152,56371 5,89919,27898	2 78523,06948 152,77312	2 95930,90449 143,78189	9,97367,08511,7023 2,72219,7686	10,44486,11727 23,82809	15: 0
24	94111,70233,28473 5,90205,95962	2 78370,29636 152,62475	2 95787,12260 143,63325	9,97364,36291,9337 2,72369,1347	10,44462,28918 23,81801	14:24
23	94105,80027,32511 5,90492,62228	2 78217,67161 152,47659	2 95643,48935 143,48481	9,97361,63922,7990 2,72518,5194	10,44438,47117 23,80794	13:48
22	94099,89534,70283 5,90779,26695	2 78065,19502 152,32867	2 95500,00454 143,33662	9,97358,91404,2796 2,72667,9228	10,44414,66323 23,79788	13:12
21	94093,98755,43588 5,91065,89363	2 77912,86635 152,18096	2 95356,66792 143,18864	9,97356,18736,3568 2,72817,3452	10,44390,86535 23,78784	12:36
20	94088,07689,54225 5,91352,50229	2 77760,68539 152,03348	2 95213,47928 143,04089	9,97353,45919,0116 2,72966,7861	10,44367,07751 23,77780	12: 0
19	94082,16337,03996 5,91639,09296	2 77608,65191 151,88623	2 95070,43839 142,89336	9,97350,72952,2255 2,73116,2460	10,44343,29971 23,76777	11:24
18	94076,24697,94700 5,91925,66559	2 77456,76568 151,73920	2 94927,54503 142,74605	9,97347,99835,9795 2,73265,7246	10,44319,53194 23,75777	10:48
17	94070,32772,28141 5,92212,22020	2 77305,02648 151,59239	2 94784,79898 142,59897	9,97345,26570,2549 2,73415,2221	10,44295,77417 23,74776	10:12
16	94064,40560,06121 5,92498,75676	2 77153,43409 151,44580	2 94642,20001 142,45211	9,97342,53155,0328 2,73564,7383	10,44272,02641 23,73777	9:36
15	94058,48061,30445 5,92785,27527	2 77001,98829 151,29944	2 94499,74790 142,30547	9,97339,79590,2945 2,73714,2734	10,44248,28864 23,72780	9: 0
14	94052,55276,02918 5,93071,77574	2 76850,68885 151,15330	2 94357,44243 142,15905	9,97337,05876,0211 2,73863,8273	10,44224,56084 23,71782	8:24
13	94046,62204,25344 5,93358,25812	2 76699,53555 151,00737	2 94215,28338 142,01285	9,97334,32012,1938 2,74013,4002	10,44200,84302 23,70787	7:48
12	94040,68845,99532 5,93644,72245	2 76548,52818 150,86166	2 94073,27053 141,86687	9,97331,57998,7936 2,74162,9918	10,44177,13515 23,69793	7:12
11	94034,75201,27287 5,93931,16868	2 76397,66652 150,71619	2 93931,40366 141,72112	9,97328,83835,8018 2,74312,6024	10,44153,43722 23,68799	6:36
10	94028,81270,10419 5,94217,59682	2 76246,95033 150,57092	2 93789,68254 141,57558	9,97326,09523,1994 2,74462,2319	10,44129,74923 23,67807	6: 0
9	94022,87052,50737 5,94504,00687	2 76096,37941 150,42588	2 93648,10696 141,43026	9,97323,35060,9675 2,74611,8803	10,44106,07116 23,66816	5:24
8	94016,92548,50050 5,94790,39879	2 75945,95353 150,28105	2 93506,67670 141,28515	9,97320,60449,0872 2,74761,5476	10,44082,40300 23,65826	4:48
7	94010,97758,10171 5,95076,77261	2 75795,67248 150,13645	2 93365,39155 141,14028	9,97317,85687,5396 2,74911,2338	10,44058,74474 23,64838	4:12
6	94005,02681,32910 5,95363,12830	2 75645,53603 149,99206	2 93224,25127 140,99561	9,97315,10776,3058 2,75060,9390	10,44035,09636 23,63849	3:36
5	93999,07318,20080 5,95649,46585	2 75495,54397 149,84788	2 93083,25566 140,85116	9,97312,35715,3668 2,75210,6632	10,44011,45787 23,62863	3: 0
4	93993,11668,73495 5,95935,78525	2 75345,69609 149,70393	2 92942,40450 140,70693	9,97309,60504,7036 2,75360,4064	10,43987,82924 23,61877	2:24
3	93987,15732,94970 5,96222,08650	2 75195,99216 149,56019	2 92801,69757 140,56291	9,97306,85144,2972 2,75510,1685	10,43964,21047 23,60892	1:48
2	93981,19510,86320 5,96508,36960	2 75046,43197 149,41666	2 92661,13466 140,41911	9,97304,09634,1287 2,75659,9496	10,43940,60155 23,59910	1:12
1	93975,23002,49360 5,96794,63452	2 74897,01531 149,27336	2 92520,71555 140,27553	9,97301,33974,1791 2,75809,7497	10,43917,00245 23,58927	0:36
0	93969,26207,85908 5,97080,88125	2 74747,74195 149,13027	2 92380,44002 140,13216	9,97298,58164,4294 2,75959,5690	10,43893,41318 23,57946	0: 0

GRAD. 70.

20. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	34202,01433,25669 16,40020,91796	36397,02343 19,76666	1 06417,77725 6,76221	9,53405,16846,4552 20,81986,5067	9,56106,58682 23,57946	0: 0
1	34218,41454,17465 16,39916,68272	36416,79009 19,76917	1 06424,53946 6,76632	9,53425,98832,9619 20,80856,6606	9,56130,16628 23,56966	0:36
2	34234,81370,85737 16,39812,39751	36436,55926 19,77169	1 06431,30578 6,77043	9,53446,79689,6225 20,79727,8966	9,56153,73594 23,55987	1:12
3	34251,21183,25488 16,39708,06235	36456,33095 19,77421	1 06438,07621 6,77452	9,53467,59417,5191 20,78600,2130	9,56177,29581 23,55010	1:48
4	34267,60891,31723 16,39603,67725	36476,10516 19,77672	1 06444,85073 6,77863	9,53488,38017,7321 20,77473,6086	9,56200,84591 23,54032	2:24
5	34284,00494,99448 16,39499,24220	36495,88188 19,77924	1 06451,62936 6,78274	9,53509,15491,3407 20,76348,0813	9,56224,38623 23,53057	3: 0
6	34300,39994,23668 16,39394,75720	36515,66112 19,78177	1 06458,41210 6,78685	9,53529,91839,4220 20,75223,6298	9,56247,91680 23,52083	3:36
7	34316,79388,99388 16,39290,22227	36535,44289 19,78428	1 06465,19895 6,79095	9,53550,67063,0518 20,74100,2524	9,56271,43763 23,51109	4:12
8	34333,18679,21615 16,39185,63741	36555,22717 19,78682	1 06471,98990 6,79507	9,53571,41163,3042 20,72977,9475	9,56294,94872 23,50137	4:48
9	34349,57864,85356 16,39081,00260	36575,01399 19,78933	1 06478,78497 6,79917	9,53592,14141,2517 20,71856,7134	9,56318,45009 23,49165	5:24
10	34365,96945,85616 16,38976,31788	36594,80332 19,79187	1 06485,58414 6,80329	9,53612,85997,9651 20,70736,5488	9,56341,94174 23,48196	6: 0
11	34382,35922,17404 16,38871,58321	36614,59519 19,79440	1 06492,38743 6,80740	9,53633,56734,5139 20,69617,4516	9,56365,42370 23,47226	6:36
12	34398,74793,75725 16,38766,79865	36634,38959 19,79692	1 06499,19483 6,81152	9,53654,26351,9655 20,68499,4207	9,56388,89596 23,46258	7:12
13	34415,13560,55590 16,38661,96414	36654,18651 19,79946	1 06506,00635 6,81564	9,53674,94851,3862 20,67382,4543	9,56412,35854 23,45292	7:48
14	34431,52222,52004 16,38557,07973	36673,98597 19,80200	1 06512,82199 6,81975	9,53695,62233,8405 20,66266,5508	9,56435,81146 23,44325	8:24
15	34447,90779,59977 16,38452,14540	36693,78797 19,80453	1 06519,64174 6,82387	9,53716,28500,3913 20,65151,7085	9,56459,25471 23,43361	9: 0
16	34464,29231,74517 16,38347,16116	36713,59250 19,80707	1 06526,46561 6,82798	9,53736,93652,0998 20,64037,9261	9,56482,68832 23,42397	9:36
17	34480,67578,90633 16,38242,12702	36733,39957 19,80961	1 06533,29359 6,83211	9,53757,57690,0259 20,62925,2018	9,56506,11229 23,41435	10:12
18	34497,05821,03335 16,38137,04297	36753,20918 19,81215	1 06540,12570 6,83624	9,53778,20615,2277 20,61813,5342	9,56529,52664 23,40473	10:48
19	34513,43958,07632 16,38031,90903	36773,02133 19,81470	1 06546,96194 6,84035	9,53798,82428,7619 20,60702,9215	9,56552,93137 23,39513	11:24
20	34529,81989,98535 16,37926,72517	36792,83603 19,81724	1 06553,80229 6,84448	9,53819,43131,6834 20,59593,3624	9,56576,32650 23,38553	12: 0
21	34546,19916,71052 16,37821,49144	36812,65327 19,81978	1 06560,64677 6,84861	9,53840,02725,0458 20,58484,8550	9,56599,71203 23,37595	12:36
22	34562,57738,20196 16,37716,20780	36832,47305 19,82234	1 06567,49538 6,85273	9,53860,61209,9008 20,57377,3981	9,56623,08798 23,36638	13:12
23	34578,95454,40976 16,37610,87429	36852,29539 19,82488	1 06574,34811 6,85686	9,53881,18587,2989 20,56270,9899	9,56646,45436 23,35682	13:48
24	34595,33065,28405 16,37505,49088	36872,12027 19,82744	1 06581,20497 6,86099	9,53901,74858,2888 20,55165,6290	9,56669,81118 23,34726	14:24
25	34611,70570,77493 16,37400,05760	36891,94771 19,82999	1 06588,06596 6,86513	9,53922,30023,9178 20,54061,3136	9,56693,15844 23,33773	15: 0
26	34628,07970,83253 16,37294,57443	36911,77770 19,83255	1 06594,93109 6,86925	9,53942,84085,2314 20,52958,0425	9,56716,49617 23,32819	15:36
27	34644,45265,40696 16,37189,04140	36931,61025 19,83510	1 06601,80034 6,87338	9,53963,37043,2739 20,51855,8138	9,56739,82436 23,31868	16:12
28	34660,82454,44836 16,37083,45849	36951,44535 19,83766	1 06608,67372 6,87753	9,53983,88899,0877 20,50754,6262	9,56763,14304 23,30917	16:48
29	34677,19537,90685 16,36977,82571	36971,28301 19,84022	1 06615,55125 6,88165	9,54004,39653,7139 20,49654,4780	9,56786,45221 23,29967	17:24
30	34693,56515,73256 16,36872,14307	36991,12323 19,84278	1 06622,43290 6,88579	9,54024,89308,1919 20,48555,3679	9,56809,75188 23,29019	18: 0
31	34709,93387,87563 16,36766,41056	37010,96601 19,84535	1 06629,31869 6,88994	9,54045,37863,5598 20,47457,2941	9,56833,04207 23,28070	18:36
32	34726,30154,28619 16,36660,62820	37030,81136 19,84791	1 06636,20863 6,89407	9,54065,85320,8539 20,46360,2552	9,56856,32277 23,27125	19:12
33	34742,66814,91439 16,36554,79598	37050,65927 19,85048	1 06643,10270 6,89821	9,54086,31681,1091 20,45264,2496	9,56879,59402 23,26178	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	93969,26207,85908 5,97080,88125	2 74747,74195 149,13027	2 92380,44002 140,13216	9,97298,58164,4294 2,75959,5690	10,43893,41318 23,57946	60: 0
99	93963,29126,97783 5,97367,10981	2 74598,61168 148,98739	2 92240,30786 139,98901	9,97295,82204,8604 2,76109,4072	10,43869,83372 23,56966	59:24
98	93957,31759,86802 5,97653,32017	2 74449,62429 148,84473	2 92100,31885 139,84607	9,97293,06095,4532 2,76259,2644	10,43846,26406 23,55987	58:48
97	93951,34106,54785 5,97939,51232	2 74300,77956 148,70228	2 91960,47278 139,70334	9,97290,29836,1888 2,76409,1408	10,43822,70419 23,55010	58:12
96	93945,36167,03553 5,98225,68625	2 74152,07728 148,56004	2 91820,76944 139,56082	9,97287,53427,0480 2,76559,0362	10,43799,15409 23,54032	57:36
95	93939,37941,34928 5,98511,84196	2 74003,51724 148,41802	2 91681,20862 139,41853	9,97284,76868,0118 2,76708,9507	10,43775,61377 23,53057	57: 0
94	93933,39429,50732 5,98797,97945	2 73855,09922 148,27621	2 91541,79009 139,27644	9,97282,00159,0611 2,76858,8843	10,43752,08320 23,52083	56:24
93	93927,40631,52787 5,99084,09869	2 73706,82301 148,13461	2 91402,51365 139,13456	9,97279,23300,1768 2,77008,8371	10,43728,56237 23,51109	55:48
92	93921,41547,42918 5,99370,19968	2 73558,68840 147,99323	2 91263,37909 138,99290	9,97276,46291,3397 2,77158,8089	10,43705,05128 23,50137	55:12
91	93915,42177,22950 5,99656,28241	2 73410,69517 147,85205	2 91124,38619 138,85144	9,97273,69132,5308 2,77308,8000	10,43681,54991 23,49165	54:36
90	93909,42520,94709 5,99942,34688	2 73262,84312 147,71108	2 90985,53475 138,71021	9,97270,91823,7308 2,77458,8101	10,43658,05826 23,48196	54: 0
89	93903,42578,60021 6,00228,39307	2 73115,13204 147,57034	2 90846,82454 138,56917	9,97268,14364,9207 2,77608,8394	10,43634,57630 23,47226	53:24
88	93897,42350,20714 6,00514,42098	2 72967,56170 147,42978	2 90708,25537 138,42834	9,97265,36756,0813 2,77758,8880	10,43611,10404 23,46258	52:48
87	93891,41835,78616 6,00800,43060	2 72820,13192 147,28946	2 90569,82703 138,28774	9,97262,58997,1933 2,77908,9556	10,43587,64146 23,45292	52:12
86	93885,41035,35556 6,01086,42191	2 72672,84246 147,14933	2 90431,53929 138,14733	9,97259,81088,2377 2,78059,0426	10,43564,18854 23,44325	51:36
85	93879,39948,93365 6,01372,39491	2 72525,69313 147,00942	2 90293,39196 138,00714	9,97257,03029,1951 2,78209,1487	10,43540,74529 23,43361	51: 0
84	93873,38576,53874 6,01658,34960	2 72378,68371 146,86970	2 90155,38482 137,86715	9,97254,24820,0464 2,78359,2741	10,43517,31168 23,42397	50:24
83	93867,36918,18914 6,01944,28595	2 72231,81401 146,73021	2 90017,51767 137,72737	9,97251,46460,7723 2,78509,4187	10,43493,88771 23,41435	49:48
82	93861,34973,90319 6,02230,20398	2 72085,08380 146,59092	2 89879,79030 137,58780	9,97248,67951,3536 2,78659,5826	10,43470,47336 23,40473	49:12
81	93855,32743,69921 6,02516,10365	2 71938,49288 146,45183	2 89742,20250 137,44844	9,97245,89291,7710 2,78809,7657	10,43447,06863 23,39513	48:36
80	93849,30227,59556 6,02801,98498	2 71792,04105 146,31296	2 89604,75406 137,30927	9,97243,10482,0053 2,78959,9681	10,43423,67350 23,38553	48: 0
79	93843,27425,61058 6,03087,84793	2 71645,72809 146,17428	2 89467,44479 137,17033	9,97240,31522,0372 2,79110,1899	10,43400,28797 23,37595	47:24
78	93837,24337,76265 6,03373,69252	2 71499,55381 146,03582	2 89330,27446 137,03158	9,97237,52411,8473 2,79260,4309	10,43376,91202 23,36638	46:48
77	93831,20964,07013 6,03659,51874	2 71353,51799 145,89755	2 89193,24288 136,89304	9,97234,73151,4164 2,79410,6912	10,43353,54564 23,35682	46:12
76	93825,17304,55139 6,03945,32655	2 71207,62044 145,75951	2 89056,34984 136,75471	9,97231,93740,7252 2,79560,9710	10,43330,18882 23,34726	45:36
75	93819,13359,22484 6,04231,11597	2 71061,86093 145,62165	2 88919,59513 136,61657	9,97229,14179,7542 2,79711,2700	10,43306,84156 23,33773	45: 0
74	93813,09128,10887 6,04516,88700	2 70916,23928 145,48401	2 88782,97856 136,47865	9,97226,34468,4842 2,79861,5884	10,43283,50383 23,32819	44:24
73	93807,04611,22187 6,04802,63959	2 70770,75527 145,34656	2 88646,49991 136,34092	9,97223,54606,8958 2,80011,9261	10,43260,17564 23,31868	43:48
72	93800,99808,58228 6,05088,37378	2 70625,40871 145,20933	2 88510,15899 136,20341	9,97220,74594,9697 2,80162,2834	10,43236,85696 23,30917	43:12
71	93794,94720,20850 6,05374,08952	2 70480,19938 145,07229	2 88373,95558 136,06609	9,97217,94432,6863 2,80312,6599	10,43213,54779 23,29967	42:36
70	93788,89346,11898 6,05659,78683	2 70335,12709 144,93546	2 88237,88949 135,92897	9,97215,14120,0264 2,80463,0559	10,43190,24812 23,29019	42: 0
69	93782,83686,33215 6,05945,46569	2 70190,19163 144,79882	2 88101,96052 135,79206	9,97212,33656,9705 2,80613,4713	10,43166,95793 23,28070	41:24
68	93776,77740,86646 6,06231,12609	2 70045,39281 144,66240	2 87966,16846 135,65536	9,97209,53043,4992 2,80763,9061	10,43143,67723 23,27125	40:48
67	93770,71509,74037 6,06516,76801	2 69900,73041 144,52618	2 87830,51310 135,51884	9,97206,72279,5931 2,80914,3604	10,43120,40598 23,26178	40:12

GRAD. 69.

20. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	34742,66814,91439 16,36554,79598	37050,65927 19,85048	1 06643,10270 6,89821	9,54086,31681,1091 20,45264,2496	9,56879,59402 23,26178	19:48
34	34759,03369,71037 16,36448,91391	37070,50975 19,85305	1 06650,00091 6,90235	9,54106,76945,3587 20,44169,2758	9,56902,85580 23,25234	20:24
35	34775,39818,62428 16,36342,98199	37090,36280 19,85562	1 06656,90326 6,90649	9,54127,21114,6345 20,43075,3324	9,56926,10814 23,24291	21: 0
36	34791,76161,60627 16,36237,00022	37110,21842 19,85819	1 06663,80975 6,91064	9,54147,64189,9669 20,41982,4177	9,56949,35105 23,23348	21:36
37	34808,12398,60649 16,36130,96862	37130,07661 19,86077	1 06670,72039 6,91479	9,54168,06172,3846 20,40890,5303	9,56972,58453 23,22407	22:12
38	34824,48529,57511 16,36024,88716	37149,93738 19,86334	1 06677,63518 6,91893	9,54188,47062,9149 20,39799,6686	9,56995,80860 23,21467	22:48
39	34840,84554,46227 16,35918,75588	37169,80072 19,86591	1 06684,55411 6,92308	9,54208,86862,5835 20,38709,8312	9,57019,02327 23,20527	23:24
40	34857,20473,21815 16,35812,57477	37189,66663 19,86850	1 06691,47719 6,92723	9,54229,25572,4147 20,37621,0165	9,57042,22854 23,19589	24: 0
41	34873,56285,79292 16,35706,34381	37209,53513 19,87108	1 06698,40442 6,93137	9,54249,63193,4312 20,36533,2230	9,57065,42443 23,18652	24:36
42	34889,91992,13673 16,35600,06305	37229,40621 19,87366	1 06705,33579 6,93553	9,54269,99726,6542 20,35446,4492	9,57088,61095 23,17716	25:12
43	34906,27592,19978 16,35493,73244	37249,27987 19,87625	1 06712,27132 6,93969	9,54290,35173,1034 20,34360,6936	9,57111,78811 23,16780	25:48
44	34922,63085,93222 16,35387,35203	37269,15612 19,87883	1 06719,21101 6,94383	9,54310,69533,7970 20,33275,9548	9,57134,95591 23,15847	26:24
45	34938,98473,28425 16,35280,92180	37289,03495 19,88141	1 06726,15484 6,94799	9,54331,02809,7518 20,32192,2312	9,57158,11438 23,14914	27: 0
46	34955,33754,20605 16,35174,44175	37308,91636 19,88401	1 06733,10283 6,95215	9,54351,35001,9830 20,31109,5213	9,57181,26352 23,13981	27:36
47	34971,68928,64780 16,35067,91189	37328,80037 19,88660	1 06740,05498 6,95631	9,54371,66111,5043 20,30027,8237	9,57204,40333 23,13051	28:12
48	34988,03996,55969 16,34961,33223	37348,68697 19,88919	1 06747,01129 6,96046	9,54391,96139,3280 20,28947,1368	9,57227,53384 23,12120	28:48
49	35004,38957,89192 16,34854,70275	37368,57616 19,89179	1 06753,97175 6,96462	9,54412,25086,4648 20,27867,4593	9,57250,65504 23,11192	29:24
50	35020,73812,59467 16,34748,02350	37388,46795 19,89438	1 06760,93637 6,96879	9,54432,52953,9241 20,26788,7895	9,57273,76696 23,10264	30: 0
51	35037,08560,61817 16,34641,29442	37408,36233 19,89698	1 06767,90516 6,97295	9,54452,79742,7136 20,25711,1261	9,57296,86960 23,09337	30:36
52	35053,43201,91259 16,34534,51557	37428,25931 19,89958	1 06774,87811 6,97711	9,54473,05453,8397 20,24634,4675	9,57319,96297 23,08411	31:12
53	35069,77736,42816 16,34427,68691	37448,15889 19,90218	1 06781,85522 6,98128	9,54493,30088,3072 20,23558,8123	9,57343,04708 23,07487	31:48
54	35086,12164,11507 16,34320,80848	37468,06107 19,90479	1 06788,83650 6,98544	9,54513,53647,1195 20,22484,1590	9,57366,12195 23,06562	32:24
55	35102,46484,92355 16,34213,88025	37487,96586 19,90739	1 06795,82194 6,98961	9,54533,76131,2785 20,21410,5063	9,57389,18757 23,05640	33: 0
56	35118,80698,80380 16,34106,90225	37507,87325 19,90999	1 06802,81155 6,99378	9,54553,97541,7848 20,20337,8523	9,57412,24397 23,04718	33:36
57	35135,14805,70605 16,33999,87447	37527,78324 19,91261	1 06809,80533 6,99795	9,54574,17879,6371 20,19266,1961	9,57435,29115 23,03797	34:12
58	35151,48805,58052 16,33892,79691	37547,69585 19,91521	1 06816,80328 7,00212	9,54594,37145,8332 20,18195,5359	9,57458,32912 23,02878	34:48
59	35167,82698,37743 16,33785,66959	37567,61106 19,91783	1 06823,80540 7,00630	9,54614,55341,3691 20,17125,8703	9,57481,35790 23,01959	35:24
60	35184,16484,04702 16,33678,49249	37587,52889 19,92044	1 06830,81170 7,01046	9,54634,72467,2394 20,16057,1978	9,57504,37749 23,01041	36: 0
61	35200,50162,53951 16,33571,26563	37607,44933 19,92305	1 06837,82216 7,01465	9,54654,88524,4372 20,14989,5172	9,57527,38790 23,00125	36:36
62	35216,83733,80514 16,33463,98901	37627,37238 19,92567	1 06844,83681 7,01882	9,54675,03513,9544 20,13922,8267	9,57550,38915 22,99209	37:12
63	35233,17197,79415 16,33356,66264	37647,29805 19,92830	1 06851,85563 7,02299	9,54695,17436,7811 20,12857,1252	9,57573,38124 22,98294	37:48
64	35249,50554,45679 16,33249,28649	37667,22635 19,93091	1 06858,87862 7,02718	9,54715,30293,9063 20,11792,4110	9,57596,36418 22,97380	38:24
65	35265,83803,74328 16,33141,86062	37687,15726 19,93353	1 06865,90580 7,03135	9,54735,42086,3173 20,10728,6827	9,57619,33798 22,96468	39: 0
66	35282,16945,60390 16,33034,38497	37707,09079 19,93616	1 06872,93715 7,03554	9,54755,52815,0000 20,09665,9391	9,57642,30266 22,95557	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	93770,71509,74037 6,06516,76801	2 69900,73041 144,52618	2 87830,51310 135,51884	9,97206,72279,5931 2,80914,3604	10,43120,40598 23,26178	40:12
66	93764,64992,97236 6,06802,39148	2 69756,20423 144,39014	2 87694,99426 135,38254	9,97203,91365,2327 2,81064,8342	10,43097,14420 23,25234	39:36
65	93758,58190,58088 6,07087,99644	2 69611,81409 144,25433	2 87559,61172 135,24642	9,97201,10300,3985 2,81215,3275	10,43073,89186 23,24291	39: 0
64	93752,51102,58444 6,07373,58293	2 69467,55976 144,11869	2 87424,36530 135,11053	9,97198,29085,0710 2,81365,8401	10,43050,64895 23,23348	38:24
63	93746,43729,00151 6,07659,15090	2 69323,44107 143,98328	2 87289,25477 134,97481	9,97195,47719,2309 2,81516,3724	10,43027,41547 23,22407	37:48
62	93740,36069,85061 6,07944,70038	2 69179,45779 143,84804	2 87154,27996 134,83931	9,97192,66202,8585 2,81666,9242	10,43004,19140 23,21467	37:12
61	93734,28125,15023 6,08230,23131	2 69035,60975 143,71303	2 87019,44065 134,70400	9,97189,84535,9343 2,81817,4954	10,42980,97673 23,20527	36:36
60	93728,19894,91892 6,08515,74374	2 68891,89672 143,57819	2 86884,73665 134,56889	9,97187,02718,4389 2,81968,0862	10,42957,77146 23,19589	36: 0
59	93722,11379,17518 6,08801,23763	2 68748,31853 143,44357	2 86750,16776 134,43397	9,97184,20750,3527 2,82118,6966	10,42934,57557 23,18652	35:24
58	93716,02577,93755 6,09086,71296	2 68604,87496 143,30913	2 86615,73379 134,29927	9,97181,38631,6561 2,82269,3266	10,42911,38905 23,17716	34:48
57	93709,93491,22459 6,09372,16975	2 68461,56583 143,17490	2 86481,43452 134,16474	9,97178,56362,3295 2,82419,9761	10,42888,21189 23,16780	34:12
56	93703,84119,05484 6,09657,60797	2 68318,39093 143,04087	2 86347,26978 134,03043	9,97175,73942,3534 2,82570,6452	10,42865,04409 23,15847	33:36
55	93697,74461,44687 6,09943,02762	2 68175,35006 142,90703	2 86213,23935 133,89630	9,97172,91371,7082 2,82721,3340	10,42841,88562 23,14914	33: 0
54	93691,64518,41925 6,10228,42870	2 68032,44303 142,77338	2 86079,34305 133,76238	9,97170,08650,3742 2,82872,0423	10,42818,73648 23,13981	32:24
53	93685,54289,99055 6,10513,81117	2 67889,66965 142,63994	2 85945,58067 133,62865	9,97167,25778,3319 2,83022,7703	10,42795,59667 23,13051	31:48
52	93679,43776,17938 6,10799,17506	2 67747,02971 142,50669	2 85811,95202 133,49511	9,97164,42755,5616 2,83173,5179	10,42772,46616 23,12120	31:12
51	93673,32977,00432 6,11084,52034	2 67604,52302 142,37363	2 85678,45691 133,36177	9,97161,59582,0437 2,83324,2852	10,42749,34496 23,11192	30:36
50	93667,21892,48398 6,11369,84701	2 67462,14939 142,24077	2 85545,09514 133,22863	9,97158,76257,7585 2,83475,0722	10,42726,23304 23,10264	30: 0
49	93661,10522,63697 6,11655,15505	2 67319,90862 142,10810	2 85411,86651 133,09567	9,97155,92782,6863 2,83625,8789	10,42703,13040 23,09337	29:24
48	93654,98867,48192 6,11940,44445	2 67177,80052 141,97563	2 85278,77084 132,96292	9,97153,09156,8074 2,83776,7051	10,42680,03703 23,08411	28:48
47	93648,86927,03747 6,12225,71523	2 67035,82489 141,84336	2 85145,80792 132,83036	9,97150,25380,1023 2,83927,5513	10,42656,95292 23,07487	28:12
46	93642,74701,32224 6,12510,96734	2 66893,98153 141,71127	2 85012,97756 132,69799	9,97147,41452,5510 2,84078,4170	10,42633,87805 23,06562	27:36
45	93636,62190,35490 6,12796,20081	2 66752,27026 141,57937	2 84880,27957 132,56580	9,97144,57374,1340 2,84229,3025	10,42610,81243 23,05640	27: 0
44	93630,49394,15409 6,13081,41560	2 66610,69089 141,44768	2 84747,71377 132,43383	9,97141,73144,8315 2,84380,2079	10,42587,75603 23,04718	26:24
43	93624,36312,73849 6,13366,61171	2 66469,24321 141,31617	2 84615,27994 132,30203	9,97138,88764,6236 2,84531,1328	10,42564,70885 23,03797	25:48
42	93618,22946,12678 6,13651,78915	2 66327,92704 141,18486	2 84482,97791 132,17043	9,97136,04233,4908 2,84682,0777	10,42541,67088 23,02878	25:12
41	93612,09294,33763 6,13936,94790	2 66186,74218 141,05373	2 84350,80748 132,03903	9,97133,19551,4131 2,84833,0423	10,42518,64210 23,01959	24:36
40	93605,95357,38973 6,14222,08793	2 66045,68845 140,92280	2 84218,76845 131,90780	9,97130,34718,3708 2,84984,0267	10,42495,62251 23,01041	24: 0
39	93599,81135,30180 6,14507,20926	2 65904,76565 140,79206	2 84086,86065 131,77678	9,97127,49734,3441 2,85135,0309	10,42472,61210 23,00125	23:24
38	93593,66628,09254 6,14792,31188	2 65763,97359 140,66151	2 83955,08387 131,64594	9,97124,64599,3132 2,85286,0550	10,42449,61085 22,99209	22:48
37	93587,51835,78066 6,15077,39575	2 65623,31208 140,53115	2 83823,43793 131,51529	9,97121,79313,2582 2,85437,0989	10,42426,61876 22,98294	22:12
36	93581,36758,38491 6,15362,46090	2 65482,78093 140,40098	2 83691,92264 131,38484	9,97118,93876,1593 2,85588,1626	10,42403,63582 22,97380	21:36
35	93575,21395,92401 6,15647,50731	2 65342,37995 140,27099	2 83560,53780 131,25456	9,97116,08287,9967 2,85739,2463	10,42380,66202 22,96468	21: 0
34	93569,05748,41670 6,15932,53495	2 65202,10896 140,14120	2 83429,28324 131,12449	9,97113,22548,7504 2,85890,3497	10,42357,69734 22,95557	20:24

GRAD. 69.

20. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	35298,49979,98887	37727,02695	1 06879,97269	9,54775,62480,9391	9,57665,25823	40:12
	16,32926,85960	19,93878	7,03972	20,08604,1785	22,94645	
68	35314,82906,84847	37746,96573	1 06887,01241	9,54795,71085,1176	9,57688,20468	40:48
	16,32819,28448	19,94141	7,04390	20,07543,3996	22,93736	
69	35331,15726,13295	37766,90714	1 06894,05631	9,54815,78628,5172	9,57711,14204	41:24
	16,32711,65962	19,94404	7,04809	20,06483,6010	22,92828	
70	35347,48437,79257	37786,85118	1 06901,10440	9,54835,85112,1182	9,57734,07032	42: 0
	16,32603,98503	19,94667	7,05227	20,05424,7810	22,91919	
71	35363,81041,77760	37806,79785	1 06908,15667	9,54855,90536,8992	9,57756,98951	42:36
	16,32496,26069	19,94930	7,05647	20,04366,9387	22,91013	
72	35380,13538,03829	37826,74715	1 06915,21314	9,54875,94903,8379	9,57779,89964	43:12
	16,32388,48665	19,95194	7,06065	20,03310,0722	22,90108	
73	35396,45926,52494	37846,69909	1 06922,27379	9,54895,98213,9101	9,57802,80072	43:48
	16,32280,66286	19,95457	7,06484	20,02254,1803	22,89203	
74	35412,78207,18780	37866,65366	1 06929,33863	9,54916,00468,0904	9,57825,69275	44:24
	16,32172,78936	19,95721	7,06903	20,01199,2615	22,88299	
75	35429,10379,97716	37886,61087	1 06936,40766	9,54936,01667,3519	9,57848,57574	45: 0
	16,32064,86614	19,95985	7,07322	20,00145,3146	22,87396	
76	35445,42444,84330	37906,57072	1 06943,48088	9,54956,01812,6665	9,57871,44970	45:36
	16,31956,89320	19,96249	7,07742	19,99092,3380	22,86495	
77	35461,74401,73650	37926,53321	1 06950,55830	9,54976,00905,0045	9,57894,31465	46:12
	16,31848,87055	19,96513	7,08162	19,98040,3303	22,85594	
78	35478,06250,60705	37946,49834	1 06957,63992	9,54995,98945,3348	9,57917,17059	46:48
	16,31740,79819	19,96778	7,08581	19,96989,2901	22,84695	
79	35494,37991,40524	37966,46612	1 06964,72573	9,55015,95934,6249	9,57940,01754	47:24
	16,31632,67613	19,97043	7,09001	19,95939,2162	22,83795	
80	35510,69624,08137	37986,43655	1 06971,81574	9,55035,91873,8411	9,57962,85549	48: 0
	16,31524,50436	19,97307	7,09420	19,94890,1068	22,82898	
81	35527,01148,58573	38006,40962	1 06978,90994	9,55055,86763,9479	9,57985,68447	48:36
	16,31416,28290	19,97573	7,09841	19,93841,9610	22,82002	
82	35543,32564,86863	38026,38535	1 06986,00835	9,55075,80605,9089	9,58008,50449	49:12
	16,31308,01174	19,97837	7,10261	19,92794,7770	22,81105	
83	35559,63872,88037	38046,36372	1 06993,11096	9,55095,73400,6859	9,58031,31554	49:48
	16,31199,69088	19,98103	7,10681	19,91748,5537	22,80211	
84	35575,95072,57125	38066,34475	1 07000,21777	9,55115,65149,2396	9,58054,11765	50:24
	16,31091,32034	19,98368	7,11101	19,90703,2895	22,79317	
85	35592,26163,89159	38086,32843	1 07007,32878	9,55135,55852,5291	9,58076,91082	51: 0
	16,30982,90011	19,98634	7,11522	19,89658,9831	22,78424	
86	35608,57146,79170	38106,31477	1 07014,44400	9,55155,45511,5122	9,58099,69506	51:36
	16,30874,43020	19,98900	7,11943	19,88615,6332	22,77532	
87	35624,88021,22190	38126,30377	1 07021,56343	9,55175,34127,1454	9,58122,47038	52:12
	16,30765,91061	19,99166	7,12364	19,87573,2383	22,76642	
88	35641,18787,13251	38146,29543	1 07028,68707	9,55195,21700,3837	9,58145,23680	52:48
	16,30657,34134	19,99433	7,12784	19,86531,7971	22,75751	
89	35657,49444,47385	38166,28976	1 07035,81491	9,55215,08232,1808	9,58167,99431	53:24
	16,30548,72240	19,99698	7,13206	19,85491,3082	22,74863	
90	35673,79993,19625	38186,28674	1 07042,94697	9,55234,93723,4890	9,58190,74294	54: 0
	16,30440,05380	19,99965	7,13626	19,84451,7703	22,73974	
91	35690,10433,25005	38206,28639	1 07050,08323	9,55254,78175,2593	9,58213,48268	54:36
	16,30331,33552	20,00232	7,14048	19,83413,1819	22,73088	
92	35706,40764,58557	38226,28871	1 07057,22371	9,55274,61588,4412	9,58236,21356	55:12
	16,30222,56758	20,00499	7,14469	19,82375,5417	22,72201	
93	35722,70987,15315	38246,29370	1 07064,36840	9,55294,43963,9829	9,58258,93557	55:48
	16,30113,74998	20,00766	7,14891	19,81338,8485	22,71317	
94	35739,01100,90313	38266,30136	1 07071,51731	9,55314,25302,8314	9,58281,64874	56:24
	16,30004,88274	20,01033	7,15313	19,80303,1005	22,70432	
95	35755,31105,78587	38286,31169	1 07078,67044	9,55334,05605,9319	9,58304,35306	57: 0
	16,29895,96582	20,01301	7,15734	19,79268,2969	22,69550	
96	35771,61001,75169	38306,32470	1 07085,82778	9,55353,84874,2288	9,58327,04856	57:36
	16,29786,99927	20,01568	7,16157	19,78234,4359	22,68667	
97	35787,90788,75096	38326,34038	1 07092,98935	9,55373,63108,6647	9,58349,73523	58:12
	16,29677,98307	20,01836	7,16578	19,77201,5165	22,67786	
98	35804,20466,73403	38346,35874	1 07100,15513	9,55393,40310,1812	9,58372,41309	58:48
	16,29568,91723	20,02104	7,17000	19,76169,5371	22,66906	
99	35820,50035,65126	38366,37978	1 07107,32513	9,55413,16479,7183	9,58395,08215	59:24
	16,29459,80174	20,02372	7,17423	19,75138,4963	22,66026	
100	35836,79495,45300	38386,40350	1 07114,49936	9,55432,91618,2146	9,58417,74241	60: 0
	16,29350,63663	20,02641	7,17846	19,74108,3932	22,65149	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	93562,89815,88175 6,16217,54384	2 65061,96776 140,01160	2 83298,15875 130,99459	9,97110,36658,4007 2,86041,4732	10,42334,74177 22,94645	19:48
32	93556,73598,33791 6,16502,53395	2 64921,95616 139,88218	2 83167,16416 130,86489	9,97107,50616,9275 2,86192,6165	10,42311,79532 22,93736	19:12
31	93550,57095,80396 6,16787,50529	2 64782,07398 139,75295	2 83036,29927 130,73538	9,97104,64424,3110 2,86343,7797	10,42288,85796 22,92828	18:36
30	93544,40308,29867 6,17072,45783	2 64642,32103 139,62391	2 82905,56389 130,60605	9,97101,78080,5313 2,86494,9628	10,42265,92968 22,91919	18: 0
29	93538,23235,84084 6,17357,39158	2 64502,69712 139,49506	2 82774,95784 130,47690	9,97098,91585,5685 2,86646,1660	10,42243,01049 22,91013	17:24
28	93532,05878,44926 6,17642,30653	2 64363,20206 139,36639	2 82644,48094 130,34796	9,97096,04939,4025 2,86797,3891	10,42220,10036 22,90108	16:48
27	93525,88236,14273 6,17927,20265	2 64223,83567 139,23791	2 82514,13298 130,21918	9,97093,18142,0134 2,86948,6321	10,42197,19928 22,89203	16:12
26	93519,70308,94008 6,18212,07996	2 64084,59776 139,10962	2 82383,91380 130,09060	9,97090,31193,3813 2,87099,8951	10,42174,30725 22,88299	15:36
25	93513,52096,86012 6,18496,93844	2 63945,48814 138,98151	2 82253,82320 129,96220	9,97087,44093,4862 2,87251,1782	10,42151,42426 22,87396	15: 0
24	93507,33599,92168 6,18781,77807	2 63806,50663 138,85358	2 82123,86100 129,83400	9,97084,56842,3080 2,87402,4812	10,42128,55030 22,86495	14:24
23	93501,14818,14361 6,19066,59885	2 63667,65305 138,72584	2 81994,02700 129,70596	9,97081,69439,8268 2,87553,8043	10,42105,68535 22,85594	13:48
22	93494,95751,54476 6,19351,40078	2 63528,92721 138,59830	2 81864,32104 129,57813	9,97078,81886,0225 2,87705,1474	10,42082,82941 22,84695	13:12
21	93488,76400,14398 6,19636,18384	2 63390,32891 138,47092	2 81734,74291 129,45046	9,97075,94180,8751 2,87856,5106	10,42059,98246 22,83795	12:36
20	93482,56763,96014 6,19920,94802	2 63251,85799 138,34374	2 81605,29245 129,32299	9,97073,06324,3645 2,88007,8938	10,42037,14451 22,82898	12: 0
19	93476,36843,01212 6,20205,69332	2 63113,51425 138,21673	2 81475,96946 129,19570	9,97070,18316,4707 2,88159,2971	10,42014,31553 22,82002	11:24
18	93470,16637,31880 6,20490,41974	2 62975,29752 138,08992	2 81346,77376 129,06859	9,97067,30157,1736 2,88310,7206	10,41991,49551 22,81105	10:48
17	93463,96146,89906 6,20775,12724	2 62837,20760 137,96328	2 81217,70517 128,94167	9,97064,41846,4530 2,88462,1640	10,41968,68446 22,80211	10:12
16	93457,75371,77182 6,21059,81583	2 62699,24432 137,83682	2 81088,76350 128,81492	9,97061,53384,2890 2,88613,6277	10,41945,88235 22,79317	9:36
15	93451,54311,95599 6,21344,48552	2 62561,40750 137,71056	2 80959,94858 128,68836	9,97058,64770,6613 2,88765,1115	10,41923,08918 22,78424	9: 0
14	93445,32967,47047 6,21629,13627	2 62423,69694 137,58446	2 80831,26022 128,56198	9,97055,76005,5498 2,88916,6154	10,41900,30494 22,77532	8:24
13	93439,11338,33420 6,21913,76808	2 62286,11248 137,45856	2 80702,69824 128,43579	9,97052,87088,9344 2,89068,1394	10,41877,52962 22,76642	7:48
12	93432,89424,56612 6,22198,38095	2 62148,65392 137,33283	2 80574,26245 128,30976	9,97049,98020,7950 2,89219,6837	10,41854,76320 22,75751	7:12
11	93426,67226,18517 6,22482,97487	2 62011,32109 137,20729	2 80445,95269 128,18393	9,97047,08801,1113 2,89371,2481	10,41832,00569 22,74863	6:36
10	93420,44743,21030 6,22767,54983	2 61874,11380 137,08191	2 80317,76876 128,05828	9,97044,19429,8632 2,89522,8328	10,41809,25706 22,73974	6: 0
9	93414,21975,66047 6,23052,10581	2 61737,03189 136,95674	2 80189,71048 127,93280	9,97041,29907,0304 2,89674,4376	10,41786,51732 22,73088	5:24
8	93407,98923,55466 6,23336,64282	2 61600,07515 136,83173	2 80061,77768 127,80750	9,97038,40232,5928 2,89826,0626	10,41763,78644 22,72201	4:48
7	93401,75586,91184 6,23621,16084	2 61463,24342 136,70690	2 79933,97018 127,68238	9,97035,50406,5302 2,89977,7080	10,41741,06443 22,71317	4:12
6	93395,51965,75100 6,23905,65986	2 61326,53652 136,58225	2 79806,28780 127,55745	9,97032,60428,8222 2,90129,3735	10,41718,35126 22,70432	3:36
5	93389,28060,09114 6,24190,13987	2 61189,95427 136,45779	2 79678,73035 127,43268	9,97029,70299,4487 2,90281,0593	10,41695,64694 22,69550	3: 0
4	93383,03869,95127 6,24474,60088	2 61053,49648 136,33349	2 79551,29767 127,30811	9,97026,80018,3894 2,90432,7655	10,41672,95144 22,68667	2:24
3	93376,79395,35039 6,24759,04285	2 60917,16299 136,20938	2 79423,98956 127,18370	9,97023,89585,6239 2,90584,4918	10,41650,26477 22,67786	1:48
2	93370,54636,30754 6,25043,46581	2 60780,95361 136,08545	2 79296,80586 127,05947	9,97020,99001,1321 2,90736,2385	10,41627,58691 22,66906	1:12
1	93364,29592,84173 6,25327,86971	2 60644,86816 135,96169	2 79169,74639 126,93543	9,97018,08264,8936 2,90888,0056	10,41604,91785 22,66026	0:36
0	93358,04264,97202 6,25612,25458	2 60508,90647 135,83811	2 79042,81096 126,81155	9,97015,17376,8880 2,91039,7929	10,41582,25759 22,65149	0: 0

GRAD. 69.

21. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	35836,79495,45300 16,29350,63663	38386,40350 20,02641	1 07114,49936 7,17846	9,55432,91618,2146 19,74108,3932	9,58417,74241 22,65149	0: 0
1	35853,08846,08963 16,29241,42187	38406,42991 20,02909	1 07121,67782 7,18268	9,55452,65726,6078 19,73079,2258	9,58440,39390 22,64270	0:36
2	35869,38087,51150 16,29132,15748	38426,45900 20,03178	1 07128,86050 7,18690	9,55472,38805,8336 19,72050,9934	9,58463,03660 22,63395	1:12
3	35885,67219,66898 16,29022,84348	38446,49078 20,03446	1 07136,04740 7,19114	9,55492,10856,8270 19,71023,6942	9,58485,67055 22,62519	1:48
4	35901,96242,51246 16,28913,47985	38466,52524 20,03716	1 07143,23854 7,19536	9,55511,81880,5212 19,69997,3272	9,58508,29574 22,61644	2:24
5	35918,25155,99231 16,28804,06660	38486,56240 20,03984	1 07150,43390 7,19960	9,55531,51877,8484 19,68971,8907	9,58530,91218 22,60771	3: 0
6	35934,53960,05891 16,28694,60373	38506,60224 20,04254	1 07157,63350 7,20382	9,55551,20849,7391 19,67947,3838	9,58553,51989 22,59898	3:36
7	35950,82654,66264 16,28585,09125	38526,64478 20,04524	1 07164,83732 7,20806	9,55570,88797,1229 19,66923,8049	9,58576,11887 22,59027	4:12
8	35967,11239,75389 16,28475,52916	38546,69002 20,04794	1 07172,04538 7,21230	9,55590,55720,9278 19,65901,1527	9,58598,70914 22,58156	4:48
9	35983,39715,28305 16,28365,91746	38566,73796 20,05063	1 07179,25768 7,21653	9,55610,21622,0805 19,64879,4259	9,58621,29070 22,57286	5:24
10	35999,68081,20051 16,28256,25617	38586,78859 20,05333	1 07186,47421 7,22077	9,55629,86501,5064 19,63858,6232	9,58643,86356 22,56418	6: 0
11	36015,96337,45668 16,28146,54527	38606,84192 20,05604	1 07193,69498 7,22501	9,55649,50360,1296 19,62838,7434	9,58666,42774 22,55549	6:36
12	36032,24484,00195 16,28036,78477	38626,89796 20,05874	1 07200,91999 7,22924	9,55669,13198,8730 19,61819,7850	9,58688,98323 22,54683	7:12
13	36048,52520,78672 16,27926,97469	38646,95670 20,06145	1 07208,14923 7,23349	9,55688,75018,6580 19,60801,7468	9,58711,53006 22,53817	7:48
14	36064,80447,76141 16,27817,11501	38667,01815 20,06415	1 07215,38272 7,23774	9,55708,35820,4048 19,59784,6273	9,58734,06823 22,52951	8:24
15	36081,08264,87642 16,27707,20575	38687,08230 20,06687	1 07222,62046 7,24197	9,55727,95605,0321 19,58768,4256	9,58756,59774 22,52088	9: 0
16	36097,35972,08217 16,27597,24690	38707,14917 20,06958	1 07229,86243 7,24622	9,55747,54373,4577 19,57753,1400	9,58779,11862 22,51224	9:36
17	36113,63569,32907 16,27487,23847	38727,21875 20,07229	1 07237,10865 7,25047	9,55767,12126,5977 19,56738,7693	9,58801,63086 22,50362	10:12
18	36129,91056,56754 16,27377,18048	38747,29104 20,07500	1 07244,35912 7,25471	9,55786,68865,3670 19,55725,3123	9,58824,13448 22,49501	10:48
19	36146,18433,74802 16,27267,07290	38767,36604 20,07772	1 07251,61383 7,25897	9,55806,24590,6793 19,54712,7678	9,58846,62949 22,48640	11:24
20	36162,45700,82092 16,27156,91576	38787,44376 20,08044	1 07258,87280 7,26321	9,55825,79303,4471 19,53701,1341	9,58869,11589 22,47781	12: 0
21	36178,72857,73668 16,27046,70905	38807,52420 20,08316	1 07266,13601 7,26747	9,55845,33004,5812 19,52690,4104	9,58891,59370 22,46923	12:36
22	36194,99904,44573 16,26936,45278	38827,60736 20,08589	1 07273,40348 7,27172	9,55864,85694,9916 19,51680,5950	9,58914,06293 22,46064	13:12
23	36211,26840,89851 16,26826,14695	38847,69325 20,08860	1 07280,67520 7,27597	9,55884,37375,5866 19,50671,6869	9,58936,52357 22,45209	13:48
24	36227,53667,04546 16,26715,79156	38867,78185 20,09134	1 07287,95117 7,28023	9,55903,88047,2735 19,49663,6847	9,58958,97566 22,44352	14:24
25	36243,80382,83702 16,26605,38662	38887,87319 20,09406	1 07295,23140 7,28448	9,55923,37710,9582 19,48656,5872	9,58981,41918 22,43498	15: 0
26	36260,06988,22364 16,26494,93213	38907,96725 20,09678	1 07302,51588 7,28875	9,55942,86367,5454 19,47650,3929	9,59003,85416 22,42644	15:36
27	36276,33483,15577 16,26384,42809	38928,06403 20,09952	1 07309,80463 7,29300	9,55962,34017,9383 19,46645,1007	9,59026,28060 22,41791	16:12
28	36292,59867,58386 16,26273,87452	38948,16355 20,10226	1 07317,09763 7,29727	9,55981,80663,0390 19,45640,7095	9,59048,69851 22,40938	16:48
29	36308,86141,45838 16,26163,27140	38968,26581 20,10498	1 07324,39490 7,30152	9,56001,26303,7485 19,44637,2176	9,59071,10789 22,40088	17:24
30	36325,12304,72978 16,26052,61875	38988,37079 20,10773	1 07331,69642 7,30579	9,56020,70940,9661 19,43634,6241	9,59093,50877 22,39238	18: 0
31	36341,38357,34853 16,25941,91657	39008,47852 20,11046	1 07339,00221 7,31006	9,56040,14575,5902 19,42632,9275	9,59115,90115 22,38388	18:36
32	36357,64299,26510 16,25831,16485	39028,58898 20,11320	1 07346,31227 7,31432	9,56059,57208,5177 19,41632,1267	9,59138,28503 22,37540	19:12
33	36373,90130,42995 16,25720,36361	39048,70218 20,11595	1 07353,62659 7,31859	9,56078,98840,6444 19,40632,2204	9,59160,66043 22,36692	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	93358,04264,97202 6,25612,25458	2 60508,90647 135,83811	2 79042,81096 126,81155	9,97015,17376,8880 2,91039,7929	10,41582,25759 22,65149	60: 0
99	93351,78652,71744 6,25896,62037	2 60373,06836 135,71471	2 78915,99941 126,68786	9,97012,26337,0951 2,91191,6005	10,41559,60610 22,64270	59:24
98	93345,52756,09707 6,26180,96711	2 60237,35365 135,59148	2 78789,31155 126,56433	9,97009,35145,4946 2,91343,4287	10,41536,96340 22,63395	58:48
97	93339,26575,12996 6,26465,29478	2 60101,76217 135,46842	2 78662,74722 126,44100	9,97006,43802,0659 2,91495,2770	10,41514,32945 22,62519	58:12
96	93333,00109,83518 6,26749,60335	2 59966,29375 135,34556	2 78536,30622 126,31782	9,97003,52306,7889 2,91647,1459	10,41491,70426 22,61644	57:36
95	93326,73360,23183 6,27033,89284	2 59830,94819 135,22285	2 78409,98840 126,19484	9,97000,60659,6430 2,91799,0351	10,41469,08782 22,60771	57: 0
94	93320,46326,33899 6,27318,16323	2 59695,72534 135,10033	2 78283,79356 126,07201	9,96997,68860,6079 2,91950,9447	10,41446,48011 22,59898	56:24
93	93314,19008,17576 6,27602,41451	2 59560,62501 134,97797	2 78157,72155 125,94937	9,96994,76909,6632 2,92102,8747	10,41423,88113 22,59027	55:48
92	93307,91405,76125 6,27886,64666	2 59425,64704 134,85580	2 78031,77218 125,82690	9,96991,84806,7885 2,92254,8253	10,41401,29086 22,58156	55:12
91	93301,63519,11459 6,28170,85970	2 59290,79124 134,73380	2 77905,94528 125,70461	9,96988,92551,9632 2,92406,7961	10,41378,70930 22,57286	54:36
90	93295,35348,25489 6,28455,05359	2 59156,05744 134,61197	2 77780,24067 125,58248	9,96986,00145,1671 2,92558,7876	10,41356,13644 22,56418	54: 0
89	93289,06893,20130 6,28739,22835	2 59021,44547 134,49032	2 77654,65819 125,46054	9,96983,07586,3795 2,92710,7995	10,41333,57226 22,55549	53:24
88	93282,78153,97295 6,29023,38396	2 58886,95515 134,36883	2 77529,19765 125,33876	9,96980,14875,5800 2,92862,8318	10,41311,01677 22,54683	52:48
87	93276,49130,58899 6,29307,52039	2 58752,58632 134,24752	2 77403,85889 125,21715	9,96977,22012,7482 2,93014,8847	10,41288,46994 22,53817	52:12
86	93270,19823,06860 6,29591,63766	2 58618,33880 134,12639	2 77278,64174 125,09573	9,96974,28997,8635 2,93166,9581	10,41265,93177 22,52951	51:36
85	93263,90231,43094 6,29875,73575	2 58484,21241 134,00542	2 77153,54601 124,97447	9,96971,35830,9054 2,93319,0520	10,41243,40226 22,52088	51: 0
84	93257,60355,69519 6,30159,81466	2 58350,20699 133,88463	2 77028,57154 124,85337	9,96968,42511,8534 2,93471,1665	10,41220,88138 22,51224	50:24
83	93251,30195,88053 6,30443,87437	2 58216,32236 133,76400	2 76903,71817 124,73246	9,96965,49040,6869 2,93623,3016	10,41198,36914 22,50362	49:48
82	93244,99752,00616 6,30727,91487	2 58082,55836 133,64356	2 76778,98571 124,61172	9,96962,55417,3853 2,93775,4571	10,41175,86552 22,49501	49:12
81	93238,69024,09129 6,31011,93617	2 57948,91480 133,52327	2 76654,37399 124,49114	9,96959,61641,9282 2,93927,6334	10,41153,37051 22,48640	48:36
80	93232,38012,15512 6,31295,93823	2 57815,39153 133,40317	2 76529,88285 124,37074	9,96956,67714,2948 2,94079,8301	10,41130,88411 22,47781	48: 0
79	93226,06716,21689 6,31579,92108	2 57681,98836 133,28322	2 76405,51211 124,25050	9,96953,73634,4647 2,94232,0476	10,41108,40630 22,46923	47:24
78	93219,75136,29581 6,31863,88467	2 57548,70514 133,16346	2 76281,26161 124,13044	9,96950,79402,4171 2,94384,2855	10,41085,93707 22,46064	46:48
77	93213,43272,41114 6,32147,82903	2 57415,54168 133,04386	2 76157,13117 124,01054	9,96947,85018,1316 2,94536,5443	10,41063,47643 22,45209	46:12
76	93207,11124,58211 6,32431,75412	2 57282,49782 132,92442	2 76033,12063 123,89081	9,96944,90481,5873 2,94688,8236	10,41041,02434 22,44352	45:36
75	93200,78692,82799 6,32715,65996	2 57149,57340 132,80516	2 75909,22982 123,77126	9,96941,95792,7637 2,94841,1236	10,41018,58082 22,43498	45: 0
74	93194,45977,16803 6,32999,54652	2 57016,76824 132,68607	2 75785,45856 123,65186	9,96939,00951,6401 2,94993,4442	10,40996,14584 22,42644	44:24
73	93188,12977,62151 6,33283,41379	2 56884,08217 132,56715	2 75661,80670 123,53265	9,96936,05958,1959 2,95145,7857	10,40973,71940 22,41791	43:48
72	93181,79694,20772 6,33567,26177	2 56751,51502 132,44838	2 75538,27405 123,41359	9,96933,10812,4102 2,95298,1477	10,40951,30149 22,40938	43:12
71	93175,46126,94595 6,33851,09046	2 56619,06664 132,32980	2 75414,86046 123,29470	9,96930,15514,2625 2,95450,5305	10,40928,89211 22,40088	42:36
70	93169,12275,85549 6,34134,89984	2 56486,73684 132,21137	2 75291,56576 123,17599	9,96927,20063,7320 2,95602,9340	10,40906,49123 22,39238	42: 0
69	93162,78140,95565 6,34418,68990	2 56354,52547 132,09312	2 75168,38977 123,05743	9,96924,24460,7980 2,95755,3583	10,40884,09885 22,38388	41:24
68	93156,43722,26575 6,34702,46063	2 56222,43235 131,97502	2 75045,33234 122,93905	9,96921,28705,4397 2,95907,8034	10,40861,71497 22,37540	40:48
67	93150,09019,80512 6,34986,21203	2 56090,45733 131,85711	2 74922,39329 122,82082	9,96918,32797,6363 2,96060,2692	10,40839,33957 22,36692	40:12

GRAD. 68.

21. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	36373,90130,42995 16,25720,36361	39048,70218 20,11595	1 07353,62659 7,31859	9,56078,98840,6444 19,40632,2204	9,59160,66043 22,36692	19:48
34	36390,15850,79356 16,25609,51285	39068,81813 20,11868	1 07360,94518 7,32286	9,56098,39472,8648 19,39633,2072	9,59183,02735 22,35846	20:24
35	36406,41460,30641 16,25498,61257	39088,93681 20,12144	1 07368,26804 7,32712	9,56117,79106,0720 19,38635,0861	9,59205,38581 22,35001	21: 0
36	36422,66958,91898 16,25387,66278	39109,05825 20,12418	1 07375,59516 7,33140	9,56137,17741,1581 19,37637,8556	9,59227,73582 22,34155	21:36
37	36438,92346,58176 16,25276,66346	39129,18243 20,12692	1 07382,92656 7,33568	9,56156,55379,0137 19,36641,5145	9,59250,07737 22,33312	22:12
38	36455,17623,24522 16,25165,61465	39149,30935 20,12968	1 07390,26224 7,33994	9,56175,92020,5282 19,35646,0617	9,59272,41049 22,32469	22:48
39	36471,42788,85987 16,25054,51633	39169,43903 20,13244	1 07397,60218 7,34422	9,56195,27666,5899 19,34651,4958	9,59294,73518 22,31627	23:24
40	36487,67843,37620 16,24943,36850	39189,57147 20,13518	1 07404,94640 7,34850	9,56214,62318,0857 19,33657,8157	9,59317,05145 22,30786	24: 0
41	36503,92786,74470 16,24832,17118	39209,70665 20,13794	1 07412,29490 7,35278	9,56233,95975,9014 19,32665,0199	9,59339,35931 22,29946	24:36
42	36520,17618,91588 16,24720,92436	39229,84459 20,14070	1 07419,64768 7,35705	9,56253,28640,9213 19,31673,1074	9,59361,65877 22,29106	25:12
43	36536,42339,84024 16,24609,62805	39249,98529 20,14346	1 07427,00473 7,36134	9,56272,60314,0287 19,30682,0769	9,59383,94983 22,28269	25:48
44	36552,66949,46829 16,24498,28225	39270,12875 20,14622	1 07434,36607 7,36561	9,56291,90996,1056 19,29691,9272	9,59406,23252 22,27430	26:24
45	36568,91447,75054 16,24386,88697	39290,27497 20,14899	1 07441,73168 7,36991	9,56311,20688,0328 19,28702,6568	9,59428,50682 22,26594	27: 0
46	36585,15834,63751 16,24275,44221	39310,42396 20,15175	1 07449,10159 7,37418	9,56330,49390,6896 19,27714,2649	9,59450,77276 22,25759	27:36
47	36601,40110,07972 16,24163,94796	39330,57571 20,15451	1 07456,47577 7,37847	9,56349,77104,9545 19,26726,7500	9,59473,03035 22,24924	28:12
48	36617,64274,02768 16,24052,40424	39350,73022 20,15729	1 07463,85424 7,38276	9,56369,03831,7045 19,25740,1108	9,59495,27959 22,24090	28:48
49	36633,88326,43192 16,23940,81105	39370,88751 20,16005	1 07471,23700 7,38705	9,56388,29571,8153 19,24754,3464	9,59517,52049 22,23256	29:24
50	36650,12267,24297 16,23829,16840	39391,04756 20,16283	1 07478,62405 7,39134	9,56407,54326,1617 19,23769,4552	9,59539,75305 22,22425	30: 0
51	36666,36096,41137 16,23717,47627	39411,21039 20,16560	1 07486,01539 7,39563	9,56426,78095,6169 19,22785,4362	9,59561,97730 22,21594	30:36
52	36682,59813,88764 16,23605,73469	39431,37599 20,16838	1 07493,41102 7,39992	9,56446,00881,0531 19,21802,2883	9,59584,19324 22,20763	31:12
53	36698,83419,62233 16,23493,94365	39451,54437 20,17115	1 07500,81094 7,40422	9,56465,22683,3414 19,20820,0099	9,59606,40087 22,19934	31:48
54	36715,06913,56598 16,23382,10315	39471,71552 20,17394	1 07508,21516 7,40851	9,56484,43503,3513 19,19838,6000	9,59628,60021 22,19106	32:24
55	36731,30295,66913 16,23270,21320	39491,88946 20,17671	1 07515,62367 7,41281	9,56503,63341,9513 19,18858,0576	9,59650,79127 22,18278	33: 0
56	36747,53565,88233 16,23158,27381	39512,06617 20,17950	1 07523,03648 7,41710	9,56522,82200,0089 19,17878,3812	9,59672,97405 22,17451	33:36
57	36763,76724,15614 16,23046,28497	39532,24567 20,18228	1 07530,45358 7,42141	9,56542,00078,3901 19,16899,5697	9,59695,14856 22,16625	34:12
58	36779,99770,44111 16,22934,24670	39552,42795 20,18507	1 07537,87499 7,42570	9,56561,16977,9598 19,15921,6218	9,59717,31481 22,15800	34:48
59	36796,22704,68781 16,22822,15897	39572,61302 20,18786	1 07545,30069 7,43001	9,56580,32899,5816 19,14944,5364	9,59739,47281 22,14977	35:24
60	36812,45526,84678 16,22710,02182	39592,80088 20,19065	1 07552,73070 7,43431	9,56599,47844,1180 19,13968,3124	9,59761,62258 22,14153	36: 0
61	36828,68236,86860 16,22597,83524	39612,99153 20,19344	1 07560,16501 7,43862	9,56618,61812,4304 19,12992,9483	9,59783,76411 22,13330	36:36
62	36844,90834,70384 16,22485,59924	39633,18497 20,19623	1 07567,60363 7,44292	9,56637,74805,3787 19,12018,4432	9,59805,89741 22,12510	37:12
63	36861,13320,30308 16,22373,31380	39653,38120 20,19903	1 07575,04655 7,44723	9,56656,86823,8219 19,11044,7958	9,59828,02251 22,11689	37:48
64	36877,35693,61688 16,22260,97894	39673,58023 20,20183	1 07582,49378 7,45154	9,56675,97868,6177 19,10072,0048	9,59850,13940 22,10869	38:24
65	36893,57954,59582 16,22148,59468	39693,78206 20,20463	1 07589,94532 7,45585	9,56695,07940,6225 19,09100,0692	9,59872,24809 22,10050	39: 0
66	36909,80103,19050 16,22036,16099	39713,98669 20,20743	1 07597,40117 7,46016	9,56714,17040,6917 19,08128,9877	9,59894,34859 22,09232	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	93150,09019,80512 6,34986,21203	2 56090,45733 131,85711	2 74922,39329 122,82082	9,96918,32797,6363 2,96060,2692	10,40839,33957 22,36692	40:12
66	93143,74033,59309 6,35269,94409	2 55958,60022 131,73934	2 74799,57247 122,70277	9,96915,36737,3671 2,96212,7558	10,40816,97265 22,35846	39:36
65	93137,38763,64900 6,35553,65680	2 55826,86088 131,62176	2 74676,86970 122,58489	9,96912,40524,6113 2,96365,2632	10,40794,61419 22,35001	39: 0
64	93131,03209,99220 6,35837,35014	2 55695,23912 131,50433	2 74554,28481 122,46716	9,96909,44159,3481 2,96517,7914	10,40772,26418 22,34155	38:24
63	93124,67372,64206 6,36121,02412	2 55563,73479 131,38707	2 74431,81765 122,34960	9,96906,47641,5567 2,96670,3405	10,40749,92263 22,33312	37:48
62	93118,31251,61794 6,36404,67872	2 55432,34772 131,26997	2 74309,46805 122,23221	9,96903,50971,2162 2,96822,9104	10,40727,58951 22,32469	37:12
61	93111,94846,93922 6,36688,31394	2 55301,07775 131,15304	2 74187,23584 122,11498	9,96900,54148,3058 2,96975,5011	10,40705,26482 22,31627	36:36
60	93105,58158,62528 6,36971,92975	2 55169,92471 131,03628	2 74065,12086 121,99791	9,96897,57172,8047 2,97128,1128	10,40682,94855 22,30786	36: 0
59	93099,21186,69553 6,37255,52617	2 55038,88843 130,91967	2 73943,12295 121,88101	9,96894,60044,6919 2,97280,7452	10,40660,64069 22,29946	35:24
58	93092,83931,16936 6,37539,10318	2 54907,96876 130,80323	2 73821,24194 121,76427	9,96891,62763,9467 2,97433,3987	10,40638,34123 22,29106	34:48
57	93086,46392,06618 6,37822,66076	2 54777,16553 130,68695	2 73699,47767 121,64770	9,96888,65330,5480 2,97586,0730	10,40616,05017 22,28269	34:12
56	93080,08569,40542 6,38106,19891	2 54646,47858 130,57084	2 73577,82997 121,53128	9,96885,67744,4750 2,97738,7682	10,40593,76748 22,27430	33:36
55	93073,70463,20651 6,38389,71763	2 54515,90774 130,45489	2 73456,29869 121,41504	9,96882,70005,7068 2,97891,4844	10,40571,49318 22,26594	33: 0
54	93067,32073,48888 6,38673,21690	2 54385,45285 130,33910	2 73334,88365 121,29894	9,96879,72114,2224 2,98044,2216	10,40549,22724 22,25759	32:24
53	93060,93400,27198 6,38956,69672	2 54255,11375 130,22347	2 73213,58471 121,18302	9,96876,74070,0008 2,98196,9796	10,40526,96965 22,24924	31:48
52	93054,54443,57526 6,39240,15707	2 54124,89028 130,10801	2 73092,40169 121,06726	9,96873,75873,0212 2,98349,7587	10,40504,72041 22,24090	31:12
51	93048,15203,41819 6,39523,59794	2 53994,78227 129,99270	2 72971,33443 120,95165	9,96870,77523,2625 2,98502,5588	10,40482,47951 22,23256	30:36
50	93041,75679,82025 6,39807,01935	2 53864,78957 129,87756	2 72850,38278 120,83621	9,96867,79020,7037 2,98655,3798	10,40460,24695 22,22425	30: 0
49	93035,35872,80090 6,40090,42125	2 53734,91201 129,76258	2 72729,54657 120,72093	9,96864,80365,3239 2,98808,2220	10,40438,02270 22,21594	29:24
48	93028,95782,37965 6,40373,80367	2 53605,14943 129,64776	2 72608,82564 120,60581	9,96861,81557,1019 2,98961,0851	10,40415,80676 22,20763	28:48
47	93022,55408,57598 6,40657,16657	2 53475,50167 129,53310	2 72488,21983 120,49085	9,96858,82596,0168 2,99113,9692	10,40393,59913 22,19934	28:12
46	93016,14751,40941 6,40940,50995	2 53345,96857 129,41859	2 72367,72898 120,37604	9,96855,83482,0476 2,99266,8745	10,40371,39979 22,19106	27:36
45	93009,73810,89946 6,41223,83382	2 53216,54998 129,30426	2 72247,35294 120,26140	9,96852,84215,1731 2,99419,8008	10,40349,20873 22,18278	27: 0
44	93003,32587,06564 6,41507,13815	2 53087,24572 129,19007	2 72127,09154 120,14692	9,96849,84795,3723 2,99572,7482	10,40327,02595 22,17451	26:24
43	92996,91079,92749 6,41790,42294	2 52958,05565 129,07604	2 72006,94462 120,03260	9,96846,85222,6241 2,99725,7166	10,40304,85144 22,16625	25:48
42	92990,49289,50455 6,42073,68818	2 52828,97961 128,96219	2 71886,91202 119,91843	9,96843,85496,9075 2,99878,7063	10,40282,68519 22,15800	25:12
41	92984,07215,81637 6,42356,93386	2 52700,01742 128,84848	2 71766,99359 119,80442	9,96840,85618,2012 3,00031,7171	10,40260,52719 22,14977	24:36
40	92977,64858,88251 6,42640,15997	2 52571,16894 128,73492	2 71647,18917 119,69058	9,96837,85586,4841 3,00184,7489	10,40238,37742 22,14153	24: 0
39	92971,22218,72254 6,42923,36651	2 52442,43402 128,62154	2 71527,49859 119,57688	9,96834,85401,7352 3,00337,8020	10,40216,23589 22,13330	23:24
38	92964,79295,35603 6,43206,55346	2 52313,81248 128,50831	2 71407,92171 119,46335	9,96831,85063,9332 3,00490,8762	10,40194,10259 22,12510	22:48
37	92958,36088,80257 6,43489,72082	2 52185,30417 128,39523	2 71288,45836 119,34997	9,96828,84573,0570 3,00643,9715	10,40171,97749 22,11689	22:12
36	92951,92599,08175 6,43772,86858	2 52056,90894 128,28232	2 71169,10839 119,23676	9,96825,83929,0855 3,00797,0882	10,40149,86060 22,10869	21:36
35	92945,48826,21317 6,44055,99673	2 51928,62662 128,16955	2 71049,87163 119,12369	9,96822,83131,9973 3,00950,2260	10,40127,75191 22,10050	21: 0
34	92939,04770,21644 6,44339,10526	2 51800,45707 128,05695	2 70930,74794 119,01078	9,96819,82181,7713 3,01103,3850	10,40105,65141 22,09232	20:24

GRAD. 68.

21. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	36926,02139,35149	39734,19412	1 07604,86133	9,56733,25169,6794	9,59916,44091	40:12
	16,21923,67790	20,21023	7,46447	19,07158,7591	22,08416	
68	36942,24063,02939	39754,40435	1 07612,32580	9,56752,32328,4385	9,59938,52507	40:48
	16,21811,14541	20,21303	7,46879	19,06189,3823	22,07599	
69	36958,45874,17480	39774,61738	1 07619,79459	9,56771,38517,8208	9,59960,60106	41:24
	16,21698,56349	20,21584	7,47310	19,05220,8561	22,06784	
70	36974,67572,73829	39794,83322	1 07627,26769	9,56790,43738,6769	9,59982,66890	42: 0
	16,21585,93220	20,21865	7,47742	19,04253,1793	22,05969	
71	36990,89158,67049	39815,05187	1 07634,74511	9,56809,47991,8562	9,60004,72859	42:36
	16,21473,25149	20,22147	7,48174	19,03286,3506	22,05156	
72	37007,10631,92198	39835,27334	1 07642,22685	9,56828,51278,2068	9,60026,78015	43:12
	16,21360,52141	20,22427	7,48606	19,02320,3691	22,04343	
73	37023,31992,44339	39855,49761	1 07649,71291	9,56847,53598,5759	9,60048,82358	43:48
	16,21247,74192	20,22709	7,49038	19,01355,2334	22,03531	
74	37039,53240,18531	39875,72470	1 07657,20329	9,56866,54953,8093	9,60070,85889	44:24
	16,21134,91305	20,22990	7,49470	19,00390,9425	22,02721	
75	37055,74375,09836	39895,95460	1 07664,69799	9,56885,55344,7518	9,60092,88610	45: 0
	16,21022,03481	20,23272	7,49902	18,99427,4950	22,01910	
76	37071,95397,13317	39916,18732	1 07672,19701	9,56904,54772,2468	9,60114,90520	45:36
	16,20909,10717	20,23554	7,50335	18,98464,8900	22,01101	
77	37088,16306,24034	39936,42286	1 07679,70036	9,56923,53237,1368	9,60136,91621	46:12
	16,20796,13017	20,23836	7,50768	18,97503,1261	22,00293	
78	37104,37102,37051	39956,66122	1 07687,20804	9,56942,50740,2629	9,60158,91914	46:48
	16,20683,10379	20,24118	7,51200	18,96542,2024	21,99485	
79	37120,57785,47430	39976,90240	1 07694,72004	9,56961,47282,4653	9,60180,91399	47:24
	16,20570,02805	20,24401	7,51634	18,95582,1174	21,98678	
80	37136,78355,50235	39997,14641	1 07702,23638	9,56980,42864,5827	9,60202,90077	48: 0
	16,20456,90293	20,24683	7,52066	18,94622,8703	21,97873	
81	37152,98812,40528	40017,39324	1 07709,75704	9,56999,37487,4530	9,60224,87950	48:36
	16,20343,72846	20,24966	7,52500	18,93664,4598	21,97068	
82	37169,19156,13374	40037,64290	1 07717,28204	9,57018,31151,9128	9,60246,85018	49:12
	16,20230,50463	20,25250	7,52933	18,92706,8846	21,96264	
83	37185,39386,63837	40057,89540	1 07724,81137	9,57037,23858,7974	9,60268,81282	49:48
	16,20117,23144	20,25532	7,53366	18,91750,1438	21,95460	
84	37201,59503,86981	40078,15072	1 07732,34503	9,57056,15608,9412	9,60290,76742	50:24
	16,20003,90891	20,25816	7,53800	18,90794,2360	21,94658	
85	37217,79507,77872	40098,40888	1 07739,88303	9,57075,06403,1772	9,60312,71400	51: 0
	16,19890,53701	20,26100	7,54233	18,89839,1603	21,93857	
86	37233,99398,31573	40118,66988	1 07747,42536	9,57093,96242,3375	9,60334,65257	51:36
	16,19777,11579	20,26383	7,54668	18,88884,9154	21,93056	
87	37250,19175,43152	40138,93371	1 07754,97204	9,57112,85127,2529	9,60356,58313	52:12
	16,19663,64521	20,26667	7,55102	18,87931,5003	21,92256	
88	37266,38839,07673	40159,20038	1 07762,52306	9,57131,73058,7532	9,60378,50569	52:48
	16,19550,12530	20,26951	7,55535	18,86978,9136	21,91457	
89	37282,58389,20203	40179,46989	1 07770,07841	9,57150,60037,6668	9,60400,42026	53:24
	16,19436,55606	20,27236	7,55970	18,86027,1544	21,90659	
90	37298,77825,75809	40199,74225	1 07777,63811	9,57169,46064,8212	9,60422,32685	54: 0
	16,19322,93748	20,27520	7,56405	18,85076,2216	21,89862	
91	37314,97148,69557	40220,01745	1 07785,20216	9,57188,31141,0428	9,60444,22547	54:36
	16,19209,26958	20,27805	7,56839	18,84126,1137	21,89065	
92	37331,16357,96515	40240,29550	1 07792,77055	9,57207,15267,1565	9,60466,11612	55:12
	16,19095,55235	20,28090	7,57273	18,83176,8301	21,88270	
93	37347,35453,51750	40260,57640	1 07800,34328	9,57225,98443,9866	9,60487,99882	55:48
	16,18981,78580	20,28374	7,57709	18,82228,3692	21,87475	
94	37363,54435,30330	40280,86014	1 07807,92037	9,57244,80672,3558	9,60509,87357	56:24
	16,18867,96994	20,28660	7,58143	18,81280,7301	21,86682	
95	37379,73303,27324	40301,14674	1 07815,50180	9,57263,61953,0859	9,60531,74039	57: 0
	16,18754,10476	20,28945	7,58579	18,80333,9117	21,85888	
96	37395,92057,37800	40321,43619	1 07823,08759	9,57282,42286,9976	9,60553,59927	57:36
	16,18640,19028	20,29231	7,59013	18,79387,9129	21,85096	
97	37412,10697,56828	40341,72850	1 07830,67772	9,57301,21674,9105	9,60575,45023	58:12
	16,18526,22648	20,29517	7,59450	18,78442,7323	21,84305	
98	37428,29223,79476	40362,02367	1 07838,27222	9,57320,00117,6428	9,60597,29328	58:48
	16,18412,21338	20,29803	7,59884	18,77498,3691	21,83514	
99	37444,47636,00814	40382,32170	1 07845,87106	9,57338,77616,0119	9,60619,12842	59:24
	16,18298,15098	20,30088	7,60321	18,76554,8220	21,82724	
100	37460,65934,15912	40402,62258	1 07853,47427	9,57357,54170,8339	9,60640,95566	60: 0
	16,18184,03929	20,30375	7,60756	18,75612,0900	21,81936	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	92932,60431,11118 6,44622,19416	2 51672,40012 127,94449	2 70811,73716 118,89803	9,96816,81078,3863 3,01256,5653	10,40083,55909 22,08416	19:48
32	92926,15808,91702 6,44905,26342	2 51544,45563 127,83221	2 70692,83913 118,78544	9,96813,79821,8210 3,01409,7668	10,40061,47493 22,07599	19:12
31	92919,70903,65360 6,45188,31304	2 51416,62342 127,72007	2 70574,05369 118,67299	9,96810,78412,0542 3,01562,9896	10,40039,39894 22,06784	18:36
30	92913,25715,34056 6,45471,34301	2 51288,90335 127,60808	2 70455,38070 118,56071	9,96807,76849,0646 3,01716,2337	10,40017,33110 22,05969	18: 0
29	92906,80243,99755 6,45754,35331	2 51161,29527 127,49626	2 70336,81999 118,44858	9,96804,75132,8309 3,01869,4990	10,39995,27141 22,05156	17:24
28	92900,34489,64424 6,46037,34394	2 51033,79901 127,38459	2 70218,37141 118,33661	9,96801,73263,3319 3,02022,7857	10,39973,21985 22,04343	16:48
27	92893,88452,30030 6,46320,31490	2 50906,41442 127,27306	2 70100,03480 118,22478	9,96798,71240,5462 3,02176,0937	10,39951,17642 22,03531	16:12
26	92887,42131,98540 6,46603,26616	2 50779,14136 127,16171	2 69981,81002 118,11312	9,96795,69064,4525 3,02329,4231	10,39929,14111 22,02721	15:36
25	92880,95528,71924 6,46886,19773	2 50651,97965 127,05049	2 69863,69690 118,00160	9,96792,66735,0294 3,02482,7737	10,39907,11390 22,01910	15: 0
24	92874,48642,52151 6,47169,10959	2 50524,92916 126,93944	2 69745,69530 117,89025	9,96789,64252,2557 3,02636,1457	10,39885,09480 22,01101	14:24
23	92868,01473,41192 6,47452,00175	2 50397,98972 126,82853	2 69627,80505 117,77903	9,96786,61616,1100 3,02789,5392	10,39863,08379 22,00293	13:48
22	92861,54021,41017 6,47734,87417	2 50271,16119 126,71778	2 69510,02602 117,66798	9,96783,58826,5708 3,02942,9540	10,39841,08086 21,99485	13:12
21	92855,06286,53600 6,48017,72686	2 50144,44341 126,60718	2 69392,35804 117,55708	9,96780,55883,6168 3,03096,3902	10,39819,08601 21,98678	12:36
20	92848,58268,80914 6,48300,55983	2 50017,83623 126,49674	2 69274,80096 117,44633	9,96777,52787,2266 3,03249,8478	10,39797,09923 21,97873	12: 0
19	92842,09968,24931 6,48583,37303	2 49891,33949 126,38645	2 69157,35463 117,33573	9,96774,49537,3788 3,03403,3269	10,39775,12050 21,97068	11:24
18	92835,61384,87628 6,48866,16648	2 49764,95304 126,27630	2 69040,01890 117,22529	9,96771,46134,0519 3,03556,8274	10,39753,14982 21,96264	10:48
17	92829,12518,70980 6,49148,94017	2 49638,67674 126,16632	2 68922,79361 117,11499	9,96768,42577,2245 3,03710,3494	10,39731,18718 21,95460	10:12
16	92822,63369,76963 6,49431,69408	2 49512,51042 126,05648	2 68805,67862 117,00485	9,96765,38866,8751 3,03863,8928	10,39709,23258 21,94658	9:36
15	92816,13938,07555 6,49714,42820	2 49386,45394 125,94679	2 68688,67377 116,89486	9,96762,35002,9823 3,04017,4578	10,39687,28600 21,93857	9: 0
14	92809,64223,64735 6,49997,14254	2 49260,50715 125,83725	2 68571,77891 116,78501	9,96759,30985,5245 3,04171,0441	10,39665,34743 21,93056	8:24
13	92803,14226,50481 6,50279,83708	2 49134,66990 125,72786	2 68454,99390 116,67533	9,96756,26814,4804 3,04324,6522	10,39643,41687 21,92256	7:48
12	92796,63946,66773 6,50562,51181	2 49008,94204 125,61864	2 68338,31857 116,56578	9,96753,22489,8282 3,04478,2816	10,39621,49431 21,91457	7:12
11	92790,13384,15592 6,50845,16672	2 48883,32340 125,50954	2 68221,75279 116,45639	9,96750,18011,5466 3,04631,9326	10,39599,57974 21,90659	6:36
10	92783,62538,98920 6,51127,80180	2 48757,81386 125,40061	2 68105,29640 116,34715	9,96747,13379,6140 3,04785,6052	10,39577,67315 21,89862	6: 0
9	92777,11411,18740 6,51410,41706	2 48632,41325 125,29182	2 67988,94925 116,23806	9,96744,08594,0088 3,04939,2993	10,39555,77453 21,89065	5:24
8	92770,60000,77034 6,51693,01246	2 48507,12143 125,18319	2 67872,71119 116,12911	9,96741,03654,7095 3,05093,0151	10,39533,88388 21,88270	4:48
7	92764,08307,75788 6,51975,58802	2 48381,93824 125,07469	2 67756,58208 116,02032	9,96737,98561,6944 3,05246,7524	10,39512,00118 21,87475	4:12
6	92757,56332,16986 6,52258,14371	2 48256,86355 124,96636	2 67640,56176 115,91167	9,96734,93314,9420 3,05400,5114	10,39490,12643 21,86682	3:36
5	92751,04074,02615 6,52540,67954	2 48131,89719 124,85816	2 67524,65009 115,80317	9,96731,87914,4306 3,05554,2919	10,39468,25961 21,85888	3: 0
4	92744,51533,34661 6,52823,19548	2 48007,03903 124,75012	2 67408,84692 115,69483	9,96728,82360,1387 3,05708,0942	10,39446,40073 21,85096	2:24
3	92737,98710,15113 6,53105,69155	2 47882,28891 124,64222	2 67293,15209 115,58662	9,96725,76652,0445 3,05861,9180	10,39424,54977 21,84305	1:48
2	92731,45604,45958 6,53388,16772	2 47757,64669 124,53448	2 67177,56547 115,47856	9,96722,70790,1265 3,06015,7635	10,39402,70672 21,83514	1:12
1	92724,92216,29186 6,53670,62399	2 47633,11221 124,42687	2 67062,08691 115,37065	9,96719,64774,3630 3,06169,6308	10,39380,87158 21,82724	0:36
0	92718,38545,66787 6,53953,06033	2 47508,68534 124,31942	2 66946,71626 115,26290	9,96716,58604,7322 3,06323,5196	10,39359,04434 21,81936	0: 0

GRAD. 68.

22. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	37460,65934,15912 16,18184,03929	40402,62258 20,30375	1 07853,47427 7,60756	9,57357,54170,8339 18,75612,0900	9,60640,95566 21,81936	0: 0
1	37476,84118,19841 16,18069,87830	40422,92633 20,30662	1 07861,08183 7,61192	9,57376,29782,9239 18,74670,1720	9,60662,77502 21,81147	0:36
2	37493,02188,07671 16,17955,66803	40443,23295 20,30948	1 07868,69375 7,61628	9,57395,04453,0959 18,73729,0667	9,60684,58649 21,80361	1:12
3	37509,20143,74474 16,17841,40847	40463,54243 20,31236	1 07876,31003 7,62065	9,57413,78182,1626 18,72788,7731	9,60706,39010 21,79574	1:48
4	37525,37985,15321 16,17727,09962	40483,85479 20,31522	1 07883,93068 7,62500	9,57432,50970,9357 18,71849,2902	9,60728,18584 21,78788	2:24
5	37541,55712,25283 16,17612,74150	40504,17001 20,31809	1 07891,55568 7,62938	9,57451,22820,2259 18,70910,6168	9,60749,97372 21,78004	3: 0
6	37557,73324,99433 16,17498,33410	40524,48810 20,32097	1 07899,18506 7,63374	9,57469,93730,8427 18,69972,7518	9,60771,75376 21,77220	3:36
7	37573,90823,32843 16,17383,87744	40544,80907 20,32385	1 07906,81880 7,63810	9,57488,63703,5945 18,69035,6940	9,60793,52596 21,76437	4:12
8	37590,08207,20587 16,17269,37149	40565,13292 20,32672	1 07914,45690 7,64248	9,57507,32739,2885 18,68099,4425	9,60815,29033 21,75655	4:48
9	37606,25476,57736 16,17154,81630	40585,45964 20,32960	1 07922,09938 7,64684	9,57526,00838,7310 18,67163,9961	9,60837,04688 21,74874	5:24
10	37622,42631,39366 16,17040,21183	40605,78924 20,33249	1 07929,74622 7,65122	9,57544,68002,7271 18,66229,3536	9,60858,79562 21,74093	6: 0
11	37638,59671,60549 16,16925,55810	40626,12173 20,33537	1 07937,39744 7,65559	9,57563,34232,0807 18,65295,5141	9,60880,53655 21,73313	6:36
12	37654,76597,16359 16,16810,85513	40646,45710 20,33825	1 07945,05303 7,65997	9,57581,99527,5948 18,64362,4765	9,60902,26968 21,72534	7:12
13	37670,93408,01872 16,16696,10291	40666,79535 20,34114	1 07952,71300 7,66434	9,57600,63890,0713 18,63430,2395	9,60923,99502 21,71757	7:48
14	37687,10104,12163 16,16581,30143	40687,13649 20,34403	1 07960,37734 7,66872	9,57619,27320,3108 18,62498,8022	9,60945,71259 21,70979	8:24
15	37703,26685,42306 16,16466,45071	40707,48052 20,34693	1 07968,04606 7,67310	9,57637,89819,1130 18,61568,1635	9,60967,42238 21,70202	9: 0
16	37719,43151,87377 16,16351,55075	40727,82745 20,34981	1 07975,71916 7,67748	9,57656,51387,2765 18,60638,3222	9,60989,12440 21,69427	9:36
17	37735,59503,42452 16,16236,60156	40748,17726 20,35271	1 07983,39664 7,68186	9,57675,12025,5987 18,59709,2774	9,61010,81867 21,68653	10:12
18	37751,75740,02608 16,16121,60312	40768,52997 20,35561	1 07991,07850 7,68625	9,57693,71734,8761 18,58781,0278	9,61032,50520 21,67878	10:48
19	37767,91861,62920 16,16006,55547	40788,88558 20,35850	1 07998,76475 7,69062	9,57712,30515,9039 18,57853,5726	9,61054,18398 21,67105	11:24
20	37784,07868,18467 16,15891,45858	40809,24408 20,36140	1 08006,45537 7,69502	9,57730,88369,4765 18,56926,9104	9,61075,85503 21,66333	12: 0
21	37800,23759,64325 16,15776,31248	40829,60548 20,36431	1 08014,15039 7,69940	9,57749,45296,3869 18,56001,0403	9,61097,51836 21,65561	12:36
22	37816,39535,95573 16,15661,11715	40849,96979 20,36721	1 08021,84979 7,70379	9,57768,01297,4272 18,55075,9614	9,61119,17397 21,64791	13:12
23	37832,55197,07288 16,15545,87260	40870,33700 20,37012	1 08029,55358 7,70818	9,57786,56373,3886 18,54151,6723	9,61140,82188 21,64020	13:48
24	37848,70742,94548 16,15430,57885	40890,70712 20,37302	1 08037,26176 7,71257	9,57805,10525,0609 18,53228,1721	9,61162,46208 21,63252	14:24
25	37864,86173,52433 16,15315,23588	40911,08014 20,37594	1 08044,97433 7,71697	9,57823,63753,2330 18,52305,4598	9,61184,09460 21,62483	15: 0
26	37881,01488,76021 16,15199,84372	40931,45608 20,37884	1 08052,69130 7,72136	9,57842,16058,6928 18,51383,5341	9,61205,71943 21,61716	15:36
27	37897,16688,60393 16,15084,40234	40951,83492 20,38176	1 08060,41266 7,72575	9,57860,67442,2269 18,50462,3943	9,61227,33659 21,60949	16:12
28	37913,31773,00627 16,14968,91177	40972,21668 20,38467	1 08068,13841 7,73015	9,57879,17904,6212 18,49542,0389	9,61248,94608 21,60183	16:48
29	37929,46741,91804 16,14853,37201	40992,60135 20,38760	1 08075,86856 7,73455	9,57897,67446,6601 18,48622,4673	9,61270,54791 21,59419	17:24
30	37945,61595,29005 16,14737,78305	41012,98895 20,39051	1 08083,60311 7,73896	9,57916,16069,1274 18,47703,6781	9,61292,14210 21,58654	18: 0
31	37961,76333,07310 16,14622,14491	41033,37946 20,39343	1 08091,34207 7,74335	9,57934,63772,8055 18,46785,6703	9,61313,72864 21,57890	18:36
32	37977,90955,21801 16,14506,45758	41053,77289 20,39635	1 08099,08542 7,74775	9,57953,10558,4758 18,45868,4431	9,61335,30754 21,57128	19:12
33	37994,05461,67559 16,14390,72107	41074,16924 20,39928	1 08106,83317 7,75216	9,57971,56426,9189 18,44951,9951	9,61356,87882 21,56366	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	92718,38545,66787 6,53953,06033	2 47508,68534 124,31942	2 66946,71626 115,26290	9,96716,58604,7322 3,06323,5196	10,39359,04434 21,81936	60: 0
99	92711,84592,60754 6,54235,47677	2 47384,36592 124,21211	2 66831,45336 115,15528	9,96713,52281,2126 3,06477,4303	10,39337,22498 21,81147	59:24
98	92705,30357,13077 6,54517,87327	2 47260,15381 124,10495	2 66716,29808 115,04781	9,96710,45803,7823 3,06631,3626	10,39315,41351 21,80361	58:48
97	92698,75839,25750 6,54800,24984	2 47136,04886 123,99793	2 66601,25027 114,94048	9,96707,39172,4197 3,06785,3167	10,39293,60990 21,79574	58:12
96	92692,21039,00766 6,55082,60645	2 47012,05093 123,89107	2 66486,30979 114,83331	9,96704,32387,1030 3,06939,2926	10,39271,81416 21,78788	57:36
95	92685,65956,40121 6,55364,94312	2 46888,15986 123,78434	2 66371,47648 114,72628	9,96701,25447,8104 3,07093,2902	10,39250,02628 21,78004	57: 0
94	92679,10591,45809 6,55647,25982	2 46764,37552 123,67776	2 66256,75020 114,61939	9,96698,18354,5202 3,07247,3095	10,39228,24624 21,77220	56:24
93	92672,54944,19827 6,55929,55655	2 46640,69776 123,57133	2 66142,13081 114,51265	9,96695,11107,2107 3,07401,3507	10,39206,47404 21,76437	55:48
92	92665,99014,64172 6,56211,83329	2 46517,12643 123,46504	2 66027,61816 114,40606	9,96692,03705,8600 3,07555,4137	10,39184,70967 21,75655	55:12
91	92659,42802,80843 6,56494,09006	2 46393,66139 123,35890	2 65913,21210 114,29960	9,96688,96150,4463 3,07709,4985	10,39162,95312 21,74874	54:36
90	92652,86308,71837 6,56776,32681	2 46270,30249 123,25290	2 65798,91250 114,19329	9,96685,88440,9478 3,07863,6052	10,39141,20438 21,74093	54: 0
89	92646,29532,39156 6,57058,54357	2 46147,04959 123,14704	2 65684,71921 114,08713	9,96682,80577,3426 3,08017,7336	10,39119,46345 21,73313	53:24
88	92639,72473,84799 6,57340,74030	2 46023,90255 123,04133	2 65570,63208 113,98111	9,96679,72559,6090 3,08171,8840	10,39097,73032 21,72534	52:48
87	92633,15133,10769 6,57622,91702	2 45900,86122 122,93577	2 65456,65097 113,87523	9,96676,64387,7250 3,08326,0562	10,39076,00498 21,71757	52:12
86	92626,57510,19067 6,57905,07371	2 45777,92545 122,83034	2 65342,77574 113,76949	9,96673,56061,6688 3,08480,2504	10,39054,28741 21,70979	51:36
85	92619,99605,11696 6,58187,21034	2 45655,09511 122,72506	2 65229,00625 113,66391	9,96670,47581,4184 3,08634,4664	10,39032,57762 21,70202	51: 0
84	92613,41417,90662 6,58469,32694	2 45532,37005 122,61991	2 65115,34234 113,55846	9,96667,38946,9520 3,08788,7044	10,39010,87560 21,69427	50:24
83	92606,82948,57968 6,58751,42347	2 45409,75014 122,51493	2 65001,78388 113,45315	9,96664,30158,2476 3,08942,9642	10,38989,18133 21,68653	49:48
82	92600,24197,15621 6,59033,49993	2 45287,23521 122,41006	2 64888,33073 113,34798	9,96661,21215,2834 3,09097,2461	10,38967,49480 21,67878	49:12
81	92593,65163,65628 6,59315,55633	2 45164,82515 122,30536	2 64774,98275 113,24297	9,96658,12118,0373 3,09251,5499	10,38945,81602 21,67105	48:36
80	92587,05848,09995 6,59597,59264	2 45042,51979 122,20079	2 64661,73978 113,13808	9,96655,02866,4874 3,09405,8757	10,38924,14497 21,66333	48: 0
79	92580,46250,50731 6,59879,60885	2 44920,31900 122,09635	2 64548,60170 113,03335	9,96651,93460,6117 3,09560,2234	10,38902,48164 21,65561	47:24
78	92573,86370,89846 6,60161,60497	2 44798,22265 121,99207	2 64435,56835 112,92874	9,96648,83900,3883 3,09714,5932	10,38880,82603 21,64791	46:48
77	92567,26209,29349 6,60443,58097	2 44676,23058 121,88793	2 64322,63961 112,82429	9,96645,74185,7951 3,09868,9850	10,38859,17812 21,64020	46:12
76	92560,65765,71252 6,60725,53686	2 44554,34265 121,78391	2 64209,81532 112,71997	9,96642,64316,8101 3,10023,3989	10,38837,53792 21,63252	45:36
75	92554,05040,17566 6,61007,47261	2 44432,55874 121,68005	2 64097,09535 112,61580	9,96639,54293,4112 3,10177,8347	10,38815,90540 21,62483	45: 0
74	92547,44032,70305 6,61289,38824	2 44310,87869 121,57633	2 63984,47955 112,51176	9,96636,44115,5765 3,10332,2926	10,38794,28057 21,61716	44:24
73	92540,82743,31481 6,61571,28373	2 44189,30236 121,47274	2 63871,96779 112,40786	9,96633,33783,2839 3,10486,7727	10,38772,66341 21,60949	43:48
72	92534,21172,03108 6,61853,15904	2 44067,82962 121,36930	2 63759,55993 112,30410	9,96630,23296,5112 3,10641,2747	10,38751,05392 21,60183	43:12
71	92527,59318,87204 6,62135,01422	2 43946,46032 121,26599	2 63647,25583 112,20049	9,96627,12655,2365 3,10795,7990	10,38729,45209 21,59419	42:36
70	92520,97183,85782 6,62416,84921	2 43825,19433 121,16282	2 63535,05534 112,09701	9,96624,01859,4375 3,10950,3453	10,38707,85790 21,58654	42: 0
69	92514,34767,00861 6,62698,66403	2 43704,03151 121,05979	2 63422,95833 111,99367	9,96620,90909,0922 3,11104,9137	10,38686,27136 21,57890	41:24
68	92507,72068,34458 6,62980,45866	2 43582,97172 120,95691	2 63310,96466 111,89047	9,96617,79804,1785 3,11259,5043	10,38664,69246 21,57128	40:48
67	92501,09087,88592 6,63262,23310	2 43462,01481 120,85415	2 63199,07419 111,78740	9,96614,68544,6742 3,11414,1172	10,38643,12118 21,56366	40:12

GRAD. 67.

22. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	37994,05461,67559 16,14390,72107	41074,16924 20,39928	1 08106,83317 7,75216	9,57971,56426,9189 18,44951,9951	9,61356,87882 21,56366	19:48
34	38010,19852,39666 16,14274,93539	41094,56852 20,40220	1 08114,58533 7,75657	9,57990,01378,9140 18,44036,3255	9,61378,44248 21,55605	20:24
35	38026,34127,33205 16,14159,10053	41114,97072 20,40514	1 08122,34190 7,76097	9,58008,45415,2395 18,43121,4331	9,61399,99853 21,54845	21: 0
36	38042,48286,43258 16,14043,21649	41135,37586 20,40806	1 08130,10287 7,76538	9,58026,88536,6726 18,42207,3169	9,61421,54698 21,54086	21:36
37	38058,62329,64907 16,13927,28330	41155,78392 20,41099	1 08137,86825 7,76979	9,58045,30743,9895 18,41293,9760	9,61443,08784 21,53326	22:12
38	38074,76256,93237 16,13811,30095	41176,19491 20,41393	1 08145,63804 7,77420	9,58063,72037,9655 18,40381,4091	9,61464,62110 21,52569	22:48
39	38090,90068,23332 16,13695,26942	41196,60884 20,41687	1 08153,41224 7,77862	9,58082,12419,3746 18,39469,6155	9,61486,14679 21,51812	23:24
40	38107,03763,50274 16,13579,18875	41217,02571 20,41980	1 08161,19086 7,78303	9,58100,51888,9901 18,38558,5937	9,61507,66491 21,51056	24: 0
41	38123,17342,69149 16,13463,05892	41237,44551 20,42274	1 08168,97389 7,78744	9,58118,90447,5838 18,37648,3431	9,61529,17547 21,50300	24:36
42	38139,30805,75041 16,13346,87995	41257,86825 20,42569	1 08176,76133 7,79187	9,58137,28095,9269 18,36738,8624	9,61550,67847 21,49546	25:12
43	38155,44152,63036 16,13230,65182	41278,29394 20,42862	1 08184,55320 7,79628	9,58155,64834,7893 18,35830,1508	9,61572,17393 21,48791	25:48
44	38171,57383,28218 16,13114,37457	41298,72256 20,43157	1 08192,34948 7,80070	9,58174,00664,9401 18,34922,2069	9,61593,66184 21,48039	26:24
45	38187,70497,65675 16,12998,04816	41319,15413 20,43452	1 08200,15018 7,80512	9,58192,35587,1470 18,34015,0301	9,61615,14223 21,47286	27: 0
46	38203,83495,70491 16,12881,67262	41339,58865 20,43747	1 08207,95530 7,80954	9,58210,69602,1771 18,33108,6191	9,61636,61509 21,46535	27:36
47	38219,96377,37753 16,12765,24796	41360,02612 20,44042	1 08215,76484 7,81397	9,58229,02710,7962 18,32202,9729	9,61658,08044 21,45784	28:12
48	38236,09142,62549 16,12648,77416	41380,46654 20,44337	1 08223,57881 7,81840	9,58247,34913,7691 18,31298,0906	9,61679,53828 21,45034	28:48
49	38252,21791,39965 16,12532,25125	41400,90991 20,44633	1 08231,39721 7,82282	9,58265,66211,8597 18,30393,9711	9,61700,98862 21,44285	29:24
50	38268,34323,65090 16,12415,67920	41421,35624 20,44928	1 08239,22003 7,82725	9,58283,96605,8308 18,29490,6134	9,61722,43147 21,43536	30: 0
51	38284,46739,33010 16,12299,05805	41441,80552 20,45224	1 08247,04728 7,83168	9,58302,26096,4442 18,28588,0164	9,61743,86683 21,42789	30:36
52	38300,59038,38815 16,12182,38778	41462,25776 20,45520	1 08254,87896 7,83611	9,58320,54684,4606 18,27686,1792	9,61765,29472 21,42042	31:12
53	38316,71220,77593 16,12065,66840	41482,71296 20,45817	1 08262,71507 7,84055	9,58338,82370,6398 18,26785,1007	9,61786,71514 21,41296	31:48
54	38332,83286,44433 16,11948,89991	41503,17113 20,46112	1 08270,55562 7,84498	9,58357,09155,7405 18,25884,7800	9,61808,12810 21,40551	32:24
55	38348,95235,34424 16,11832,08232	41523,63225 20,46410	1 08278,40060 7,84941	9,58375,35040,5205 18,24985,2159	9,61829,53361 21,39807	33: 0
56	38365,07067,42656 16,11715,21564	41544,09635 20,46706	1 08286,25001 7,85385	9,58393,60025,7364 18,24086,4077	9,61850,93168 21,39063	33:36
57	38381,18782,64220 16,11598,29985	41564,56341 20,47003	1 08294,10386 7,85829	9,58411,84112,1441 18,23188,3540	9,61872,32231 21,38319	34:12
58	38397,30380,94205 16,11481,33498	41585,03344 20,47300	1 08301,96215 7,86273	9,58430,07300,4981 18,22291,0541	9,61893,70550 21,37578	34:48
59	38413,41862,27703 16,11364,32101	41605,50644 20,47598	1 08309,82488 7,86718	9,58448,29591,5522 18,21394,5069	9,61915,08128 21,36837	35:24
60	38429,53226,59804 16,11247,25796	41625,98242 20,47895	1 08317,69206 7,87161	9,58466,50986,0591 18,20498,7113	9,61936,44965 21,36095	36: 0
61	38445,64473,85600 16,11130,14583	41646,46137 20,48193	1 08325,56367 7,87606	9,58484,71484,7704 18,19603,6666	9,61957,81060 21,35356	36:36
62	38461,75604,00183 16,11012,98462	41666,94330 20,48491	1 08333,43973 7,88051	9,58502,91088,4370 18,18709,3713	9,61979,16416 21,34617	37:12
63	38477,86616,98645 16,10895,77434	41687,42821 20,48789	1 08341,32024 7,88495	9,58521,09797,8083 18,17815,8250	9,62000,51033 21,33879	37:48
64	38493,97512,76079 16,10778,51499	41707,91610 20,49087	1 08349,20519 7,88940	9,58539,27613,6333 18,16923,0262	9,62021,84912 21,33141	38:24
65	38510,08291,27578 16,10661,20657	41728,40697 20,49386	1 08357,09459 7,89385	9,58557,44536,6595 18,16030,9742	9,62043,18053 21,32405	39: 0
66	38526,18952,48235 16,10543,84908	41748,90083 20,49684	1 08364,98844 7,89831	9,58575,60567,6337 18,15139,6679	9,62064,50458 21,31668	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	92501,09087,88592 6,63262,23310	2 43462,01481 120,85415	2 63199,07419 111,78740	9,96614,68544,6742 3,11414,1172	10,38643,12118 21,56366	40:12
66	92494,45825,65282 6,63543,98732	2 43341,16066 120,75154	2 63087,28679 111,68448	9,96611,57130,5570 3,11568,7520	10,38621,55752 21,55605	39:36
65	92487,82281,66550 6,63825,72135	2 43220,40912 120,64907	2 62975,60231 111,58169	9,96608,45561,8050 3,11723,4092	10,38600,00147 21,54845	39: 0
64	92481,18455,94415 6,64107,43514	2 43099,76005 120,54673	2 62864,02062 111,47904	9,96605,33838,3958 3,11878,0885	10,38578,45302 21,54086	38:24
63	92474,54348,50901 6,64389,12872	2 42979,21332 120,44453	2 62752,54158 111,37654	9,96602,21960,3073 3,12032,7900	10,38556,91216 21,53326	37:48
62	92467,89959,38029 6,64670,80204	2 42858,76879 120,34247	2 62641,16504 111,27415	9,96599,09927,5173 3,12187,5138	10,38535,37890 21,52569	37:12
61	92461,25288,57825 6,64952,45512	2 42738,42632 120,24055	2 62529,89089 111,17192	9,96595,97740,0035 3,12342,2599	10,38513,85321 21,51812	36:36
60	92454,60336,12313 6,65234,08795	2 42618,18577 120,13876	2 62418,71897 111,06981	9,96592,85397,7436 3,12497,0281	10,38492,33509 21,51056	36: 0
59	92447,95102,03518 6,65515,70051	2 42498,04701 120,03710	2 62307,64916 110,96785	9,96589,72900,7155 3,12651,8187	10,38470,82453 21,50300	35:24
58	92441,29586,33467 6,65797,29280	2 42378,00991 119,93559	2 62196,68131 110,86602	9,96586,60248,8968 3,12806,6316	10,38449,32153 21,49546	34:48
57	92434,63789,04187 6,66078,86481	2 42258,07432 119,83421	2 62085,81529 110,76433	9,96583,47442,2652 3,12961,4667	10,38427,82607 21,48791	34:12
56	92427,97710,17706 6,66360,41653	2 42138,24011 119,73296	2 61975,05096 110,66277	9,96580,34480,7985 3,13116,3241	10,38406,33816 21,48039	33:36
55	92421,31349,76053 6,66641,94794	2 42018,50715 119,63186	2 61864,38819 110,56135	9,96577,21364,4744 3,13271,2040	10,38384,85777 21,47286	33: 0
54	92414,64707,81259 6,66923,45907	2 41898,87529 119,53089	2 61753,82684 110,46006	9,96574,08093,2704 3,13426,1061	10,38363,38491 21,46535	32:24
53	92407,97784,35352 6,67204,94985	2 41779,34440 119,43004	2 61643,36678 110,35891	9,96570,94667,1643 3,13581,0306	10,38341,91956 21,45784	31:48
52	92401,30579,40367 6,67486,42033	2 41659,91436 119,32935	2 61533,00787 110,25789	9,96567,81086,1337 3,13735,9775	10,38320,46172 21,45034	31:12
51	92394,63092,98334 6,67767,87047	2 41540,58501 119,22877	2 61422,74998 110,15700	9,96564,67350,1562 3,13890,9467	10,38299,01138 21,44285	30:36
50	92387,95325,11287 6,68049,30027	2 41421,35624 119,12834	2 61312,59298 110,05626	9,96561,53459,2095 3,14045,9385	10,38277,56853 21,43536	30: 0
49	92381,27275,81260 6,68330,70972	2 41302,22790 119,02805	2 61202,53672 109,95565	9,96558,39413,2710 3,14200,9525	10,38256,13317 21,42789	29:24
48	92374,58945,10288 6,68612,09881	2 41183,19985 118,92787	2 61092,58107 109,85516	9,96555,25212,3185 3,14355,9890	10,38234,70528 21,42042	28:48
47	92367,90333,00407 6,68893,46753	2 41064,27198 118,82784	2 60982,72591 109,75481	9,96552,10856,3295 3,14511,0480	10,38213,28486 21,41296	28:12
46	92361,21439,53654 6,69174,81588	2 40945,44414 118,72795	2 60872,97110 109,65460	9,96548,96345,2815 3,14666,1294	10,38191,87190 21,40551	27:36
45	92354,52264,72066 6,69456,14384	2 40826,71619 118,62817	2 60763,31650 109,55452	9,96545,81679,1521 3,14821,2334	10,38170,46639 21,39807	27: 0
44	92347,82808,57682 6,69737,45141	2 40708,08802 118,52855	2 60653,76198 109,45457	9,96542,66857,9187 3,14976,3597	10,38149,06832 21,39063	26:24
43	92341,13071,12541 6,70018,73858	2 40589,55947 118,42904	2 60544,30741 109,35475	9,96539,51881,5590 3,15131,5086	10,38127,67769 21,38319	25:48
42	92334,43052,38683 6,70300,00534	2 40471,13043 118,32968	2 60434,95266 109,25506	9,96536,36750,0504 3,15286,6800	10,38106,29450 21,37578	25:12
41	92327,72752,38149 6,70581,25168	2 40352,80075 118,23044	2 60325,69760 109,15552	9,96533,21463,3704 3,15441,8739	10,38084,91872 21,36837	24:36
40	92321,02171,12981 6,70862,47760	2 40234,57031 118,13134	2 60216,54208 109,05610	9,96530,06021,4965 3,15597,0904	10,38063,55035 21,36095	24: 0
39	92314,31308,65221 6,71143,68307	2 40116,43897 118,03236	2 60107,48598 108,95680	9,96526,90424,4061 3,15752,3295	10,38042,18940 21,35356	23:24
38	92307,60164,96914 6,71424,86810	2 39998,40661 117,93353	2 59998,52918 108,85765	9,96523,74672,0766 3,15907,5911	10,38020,83584 21,34617	22:48
37	92300,88740,10104 6,71706,03269	2 39880,47308 117,83481	2 59889,67153 108,75862	9,96520,58764,4855 3,16062,8753	10,37999,48967 21,33879	22:12
36	92294,17034,06835 6,71987,17681	2 39762,63827 117,73624	2 59780,91291 108,65973	9,96517,42701,6102 3,16218,1821	10,37978,15088 21,33141	21:36
35	92287,45046,89154 6,72268,30045	2 39644,90203 117,63779	2 59672,25318 108,56097	9,96514,26483,4281 3,16373,5116	10,37956,81947 21,32405	21: 0
34	92280,72778,59109 6,72549,40363	2 39527,26424 117,53947	2 59563,69221 108,46233	9,96511,10109,9165 3,16528,8636	10,37935,49542 21,31668	20:24

GRAD. 67.

22. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	38542,29496,33143	41769,39767	1 08372,88675	9,58593,75707,3016	9,62085,82126	40:12
	16,10426,44254	20,49983	7,90275	18,14249,1064	21,30934	
68	38558,39922,77397	41789,89750	1 08380,78950	9,58611,89956,4080	9,62107,13060	40:48
	16,10308,98693	20,50283	7,90721	18,13359,2885	21,30199	
69	38574,50231,76090	41810,40033	1 08388,69671	9,58630,03315,6965	9,62128,43259	41:24
	16,10191,48229	20,50581	7,91167	18,12470,2135	21,29465	
70	38590,60423,24319	41830,90614	1 08396,60838	9,58648,15785,9100	9,62149,72724	42: 0
	16,10073,92858	20,50881	7,91613	18,11581,8802	21,28732	
71	38606,70497,17177	41851,41495	1 08404,52451	9,58666,27367,7902	9,62171,01456	42:36
	16,09956,32583	20,51181	7,92058	18,10694,2878	21,28000	
72	38622,80453,49760	41871,92676	1 08412,44509	9,58684,38062,0780	9,62192,29456	43:12
	16,09838,67404	20,51480	7,92504	18,09807,4350	21,27269	
73	38638,90292,17164	41892,44156	1 08420,37013	9,58702,47869,5130	9,62213,56725	43:48
	16,09720,97322	20,51781	7,92951	18,08921,3213	21,26539	
74	38655,00013,14486	41912,95937	1 08428,29964	9,58720,56790,8343	9,62234,83264	44:24
	16,09603,22335	20,52081	7,93397	18,08035,9453	21,25808	
75	38671,09616,36821	41933,48018	1 08436,23361	9,58738,64826,7796	9,62256,09072	45: 0
	16,09485,42445	20,52381	7,93844	18,07151,3062	21,25079	
76	38687,19101,79266	41954,00399	1 08444,17205	9,58756,71978,0858	9,62277,34151	45:36
	16,09367,57653	20,52681	7,94290	18,06267,4030	21,24351	
77	38703,28469,36919	41974,53080	1 08452,11495	9,58774,78245,4888	9,62298,58502	46:12
	16,09249,67959	20,52983	7,94736	18,05384,2348	21,23624	
78	38719,37719,04878	41995,06063	1 08460,06231	9,58792,83629,7236	9,62319,82126	46:48
	16,09131,73362	20,53283	7,95184	18,04501,8006	21,22897	
79	38735,46850,78240	42015,59346	1 08468,01415	9,58810,88131,5242	9,62341,05023	47:24
	16,09013,73863	20,53585	7,95631	18,03620,0993	21,22170	
80	38751,55864,52103	42036,12931	1 08475,97046	9,58828,91751,6235	9,62362,27193	48: 0
	16,08895,69464	20,53886	7,96078	18,02739,1300	21,21445	
81	38767,64760,21567	42056,66817	1 08483,93124	9,58846,94490,7535	9,62383,48638	48:36
	16,08777,60162	20,54187	7,96525	18,01858,8920	21,20721	
82	38783,73537,81729	42077,21004	1 08491,89649	9,58864,96349,6455	9,62404,69359	49:12
	16,08659,45962	20,54490	7,96973	18,00979,3838	21,19997	
83	38799,82197,27691	42097,75494	1 08499,86622	9,58882,97329,0293	9,62425,89356	49:48
	16,08541,26860	20,54791	7,97421	18,00100,6050	21,19274	
84	38815,90738,54551	42118,30285	1 08507,84043	9,58900,97429,6343	9,62447,08630	50:24
	16,08423,02858	20,55093	7,97868	17,99222,5543	21,18552	
85	38831,99161,57409	42138,85378	1 08515,81911	9,58918,96652,1886	9,62468,27182	51: 0
	16,08304,73957	20,55396	7,98317	17,98345,2308	21,17830	
86	38848,07466,31366	42159,40774	1 08523,80228	9,58936,94997,4194	9,62489,45012	51:36
	16,08186,40157	20,55698	7,98764	17,97468,6335	21,17109	
87	38864,15652,71523	42179,96472	1 08531,78992	9,58954,92466,0529	9,62510,62121	52:12
	16,08068,01458	20,56000	7,99213	17,96592,7617	21,16389	
88	38880,23720,72981	42200,52472	1 08539,78205	9,58972,89058,8146	9,62531,78510	52:48
	16,07949,57860	20,56304	7,99661	17,95717,6141	21,15670	
89	38896,31670,30841	42221,08776	1 08547,77866	9,58990,84776,4287	9,62552,94180	53:24
	16,07831,09365	20,56607	8,00109	17,94843,1900	21,14952	
90	38912,39501,40206	42241,65383	1 08555,77975	9,59008,79619,6187	9,62574,09132	54: 0
	16,07712,55972	20,56910	8,00559	17,93969,4884	21,14233	
91	38928,47213,96178	42262,22293	1 08563,78534	9,59026,73589,1071	9,62595,23365	54:36
	16,07593,97681	20,57213	8,01007	17,93096,5082	21,13517	
92	38944,54807,93859	42282,79506	1 08571,79541	9,59044,66685,6153	9,62616,36882	55:12
	16,07475,34493	20,57518	8,01456	17,92224,2486	21,12800	
93	38960,62283,28352	42303,37024	1 08579,80997	9,59062,58909,8639	9,62637,49682	55:48
	16,07356,66408	20,57821	8,01905	17,91352,7086	21,12085	
94	38976,69639,94760	42323,94845	1 08587,82902	9,59080,50262,5725	9,62658,61767	56:24
	16,07237,93428	20,58125	8,02355	17,90481,8874	21,11370	
95	38992,76877,88188	42344,52970	1 08595,85257	9,59098,40744,4599	9,62679,73137	57: 0
	16,07119,15552	20,58429	8,02804	17,89611,7838	21,10656	
96	39008,83997,03740	42365,11399	1 08603,88061	9,59116,30356,2437	9,62700,83793	57:36
	16,07000,32779	20,58734	8,03253	17,88742,3971	21,09942	
97	39024,90997,36519	42385,70133	1 08611,91314	9,59134,19098,6408	9,62721,93735	58:12
	16,06881,45112	20,59038	8,03704	17,87873,7262	21,09230	
98	39040,97878,81631	42406,29171	1 08619,95018	9,59152,06972,3670	9,62743,02965	58:48
	16,06762,52550	20,59343	8,04153	17,87005,7703	21,08518	
99	39057,04641,34181	42426,88514	1 08627,99171	9,59169,93978,1373	9,62764,11483	59:24
	16,06643,55093	20,59648	8,04603	17,86138,5282	21,07807	
100	39073,11284,89274	42447,48162	1 08636,03774	9,59187,80116,6655	9,62785,19290	60: 0
	16,06524,52742	20,59953	8,05053	17,85271,9994	21,07096	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	92274,00229,18746	2 39409,72477	2 59455,22988	9,96507,93581,0529	10,37914,17874	19:48
	6,72830,48631	117,44129	108,36382	3,16684,2383	21,30934	
32	92267,27398,70115	2 39292,28348	2 59346,86606	9,96504,76896,8146	10,37892,86940	19:12
	6,73111,54850	117,34323	108,26545	3,16839,6357	21,30199	
31	92260,54287,15265	2 39174,94025	2 59238,60061	9,96501,60057,1789	10,37871,56741	18:36
	6,73392,59019	117,24530	108,16721	3,16995,0558	21,29465	
30	92253,80894,56246	2 39057,69495	2 59130,43340	9,96498,43062,1231	10,37850,27276	18: 0
	6,73673,61135	117,14751	108,06909	3,17150,4985	21,28732	
29	92247,07220,95111	2 38940,54744	2 59022,36431	9,96495,25911,6246	10,37828,98544	17:24
	6,73954,61201	117,04984	107,97111	3,17305,9639	21,28000	
28	92240,33266,33910	2 38823,49760	2 58914,39320	9,96492,08605,6607	10,37807,70544	16:48
	6,74235,59213	116,95230	107,87325	3,17461,4521	21,27269	
27	92233,59030,74697	2 38706,54530	2 58806,51995	9,96488,91144,2086	10,37786,43275	16:12
	6,74516,55171	116,85489	107,77552	3,17616,9630	21,26539	
26	92226,84514,19526	2 38589,69041	2 58698,74443	9,96485,73527,2456	10,37765,16736	15:36
	6,74797,49074	116,75761	107,67792	3,17772,4966	21,25808	
25	92220,09716,70452	2 38472,93280	2 58591,06651	9,96482,55754,7490	10,37743,90928	15: 0
	6,75078,40923	116,66046	107,58045	3,17928,0530	21,25079	
24	92213,34638,29529	2 38356,27234	2 58483,48606	9,96479,37826,6960	10,37722,65849	14:24
	6,75359,30714	116,56344	107,48311	3,18083,6322	21,24351	
23	92206,59278,98815	2 38239,70890	2 58376,00295	9,96476,19743,0638	10,37701,41498	13:48
	6,75640,18448	116,46654	107,38590	3,18239,2342	21,23624	
22	92199,83638,80367	2 38123,24236	2 58268,61705	9,96473,01503,8296	10,37680,17874	13:12
	6,75921,04125	116,36977	107,28881	3,18394,8590	21,22897	
21	92193,07717,76242	2 38006,87259	2 58161,32824	9,96469,83108,9706	10,37658,94977	12:36
	6,76201,87741	116,27314	107,19185	3,18550,5066	21,22170	
20	92186,31515,88501	2 37890,59945	2 58054,13639	9,96466,64558,4640	10,37637,72807	12: 0
	6,76482,69300	116,17662	107,09502	3,18706,1770	21,21445	
19	92179,55033,19201	2 37774,42283	2 57947,04137	9,96463,45852,2870	10,37616,51362	11:24
	6,76763,48796	116,08023	106,99831	3,18861,8702	21,20721	
18	92172,78269,70405	2 37658,34260	2 57840,04306	9,96460,26990,4168	10,37595,30641	10:48
	6,77044,26231	115,98398	106,90173	3,19017,5865	21,19997	
17	92166,01225,44174	2 37542,35862	2 57733,14133	9,96457,07972,8303	10,37574,10644	10:12
	6,77325,01603	115,88785	106,80528	3,19173,3254	21,19274	
16	92159,23900,42571	2 37426,47077	2 57626,33605	9,96453,88799,5049	10,37552,91370	9:36
	6,77605,74914	115,79184	106,70896	3,19329,0874	21,18552	
15	92152,46294,67657	2 37310,67893	2 57519,62709	9,96450,69470,4175	10,37531,72818	9: 0
	6,77886,46159	115,69596	106,61276	3,19484,8722	21,17830	
14	92145,68408,21498	2 37194,98297	2 57413,01433	9,96447,49985,5453	10,37510,54988	8:24
	6,78167,15339	115,60021	106,51668	3,19640,6800	21,17109	
13	92138,90241,06159	2 37079,38276	2 57306,49765	9,96444,30344,8653	10,37489,37879	7:48
	6,78447,82454	115,50458	106,42074	3,19796,5106	21,16389	
12	92132,11793,23705	2 36963,87818	2 57200,07691	9,96441,10548,3547	10,37468,21490	7:12
	6,78728,47501	115,40908	106,32491	3,19952,3643	21,15670	
11	92125,33064,76204	2 36848,46910	2 57093,75200	9,96437,90595,9904	10,37447,05820	6:36
	6,79009,10483	115,31370	106,22922	3,20108,2409	21,14952	
10	92118,54055,65721	2 36733,15540	2 56987,52278	9,96434,70487,7495	10,37425,90868	6: 0
	6,79289,71394	115,21846	106,13365	3,20264,1404	21,14233	
9	92111,74765,94327	2 36617,93694	2 56881,38913	9,96431,50223,6091	10,37404,76635	5:24
	6,79570,30237	115,12333	106,03820	3,20420,0631	21,13517	
8	92104,95195,64090	2 36502,81361	2 56775,35093	9,96428,29803,5460	10,37383,63118	4:48
	6,79850,87010	115,02833	105,94287	3,20576,0086	21,12800	
7	92098,15344,77080	2 36387,78528	2 56669,40806	9,96425,09227,5374	10,37362,50318	4:12
	6,80131,41712	114,93345	105,84768	3,20731,9772	21,12085	
6	92091,35213,35368	2 36272,85183	2 56563,56038	9,96421,88495,5602	10,37341,38233	3:36
	6,80411,94342	114,83870	105,75261	3,20887,9689	21,11370	
5	92084,54801,41026	2 36158,01313	2 56457,80777	9,96418,67607,5913	10,37320,26863	3: 0
	6,80692,44899	114,74407	105,65765	3,21043,9836	21,10656	
4	92077,74108,96127	2 36043,26906	2 56352,15012	9,96415,46563,6077	10,37299,16207	2:24
	6,80972,93383	114,64956	105,56283	3,21200,0214	21,09942	
3	92070,93136,02744	2 35928,61950	2 56246,58729	9,96412,25363,5863	10,37278,06265	1:48
	6,81253,39792	114,55519	105,46813	3,21356,0822	21,09230	
2	92064,11882,62952	2 35814,06431	2 56141,11916	9,96409,04007,5041	10,37256,97035	1:12
	6,81533,84127	114,46093	105,37354	3,21512,1662	21,08518	
1	92057,30348,78825	2 35699,60338	2 56035,74562	9,96405,82495,3379	10,37235,88517	0:36
	6,81814,26385	114,36680	105,27910	3,21668,2732	21,07807	
0	92050,48534,52440	2 35585,23658	2 55930,46652	9,96402,60827,0647	10,37214,80710	0: 0
	6,82094,66566	114,27278	105,18475	3,21824,4034	21,07096	

GRAD. 67.

23. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	39073,11284,89274 16,06524,52742	42447,48162 20,59953	1 08636,03774 8,05053	9,59187,80116,6655 17,85271,9994	9,62785,19290 21,07096	0: 0
1	39089,17809,42016 16,06405,45498	42468,08115 20,60259	1 08644,08827 8,05504	9,59205,65388,6649 17,84406,1825	9,62806,26386 21,06387	0:36
2	39105,24214,87514 16,06286,33360	42488,68374 20,60564	1 08652,14331 8,05954	9,59223,49794,8474 17,83541,0770	9,62827,32773 21,05678	1:12
3	39121,30501,20874 16,06167,16328	42509,28938 20,60871	1 08660,20285 8,06405	9,59241,33335,9244 17,82676,6816	9,62848,38451 21,04969	1:48
4	39137,36668,37202 16,06047,94406	42529,89809 20,61176	1 08668,26690 8,06856	9,59259,16012,6060 17,81812,9956	9,62869,43420 21,04262	2:24
5	39153,42716,31608 16,05928,67589	42550,50985 20,61482	1 08676,33546 8,07306	9,59276,97825,6016 17,80950,0179	9,62890,47682 21,03556	3: 0
6	39169,48644,99197 16,05809,35881	42571,12467 20,61788	1 08684,40852 8,07758	9,59294,78775,6195 17,80087,7479	9,62911,51238 21,02849	3:36
7	39185,54454,35078 16,05689,99282	42591,74255 20,62096	1 08692,48610 8,08208	9,59312,58863,3674 17,79226,1844	9,62932,54087 21,02144	4:12
8	39201,60144,34360 16,05570,57792	42612,36351 20,62402	1 08700,56818 8,08661	9,59330,38089,5518 17,78365,3264	9,62953,56231 21,01440	4:48
9	39217,65714,92152 16,05451,11409	42632,98753 20,62708	1 08708,65479 8,09111	9,59348,16454,8782 17,77505,1733	9,62974,57671 21,00736	5:24
10	39233,71166,03561 16,05331,60138	42653,61461 20,63016	1 08716,74590 8,09564	9,59365,93960,0515 17,76645,7240	9,62995,58407 21,00032	6: 0
11	39249,76497,63699 16,05212,03976	42674,24477 20,63324	1 08724,84154 8,10015	9,59383,70605,7755 17,75786,9774	9,63016,58439 20,99331	6:36
12	39265,81709,67675 16,05092,42924	42694,87801 20,63631	1 08732,94169 8,10467	9,59401,46392,7529 17,74928,9330	9,63037,57770 20,98628	7:12
13	39281,86802,10599 16,04972,76983	42715,51432 20,63938	1 08741,04636 8,10919	9,59419,21321,6859 17,74071,5895	9,63058,56398 20,97928	7:48
14	39297,91774,87582 16,04853,06152	42736,15370 20,64247	1 08749,15555 8,11372	9,59436,95393,2754 17,73214,9463	9,63079,54326 20,97228	8:24
15	39313,96627,93734 16,04733,30433	42756,79617 20,64554	1 08757,26927 8,11824	9,59454,68608,2217 17,72359,0022	9,63100,51554 20,96528	9: 0
16	39330,01361,24167 16,04613,49827	42777,44171 20,64863	1 08765,38751 8,12276	9,59472,40967,2239 17,71503,7566	9,63121,48082 20,95829	9:36
17	39346,05974,73994 16,04493,64331	42798,09034 20,65171	1 08773,51027 8,12729	9,59490,12470,9805 17,70649,2083	9,63142,43911 20,95132	10:12
18	39362,10468,38325 16,04373,73948	42818,74205 20,65481	1 08781,63756 8,13183	9,59507,83120,1888 17,69795,3566	9,63163,39043 20,94434	10:48
19	39378,14842,12273 16,04253,78678	42839,39686 20,65789	1 08789,76939 8,13635	9,59525,52915,5454 17,68942,2005	9,63184,33477 20,93737	11:24
20	39394,19095,90951 16,04133,78522	42860,05475 20,66098	1 08797,90574 8,14088	9,59543,21857,7459 17,68089,7391	9,63205,27214 20,93042	12: 0
21	39410,23229,69473 16,04013,73478	42880,71573 20,66407	1 08806,04662 8,14542	9,59560,89947,4850 17,67237,9716	9,63226,20256 20,92346	12:36
22	39426,27243,42951 16,03893,63549	42901,37980 20,66717	1 08814,19204 8,14995	9,59578,57185,4566 17,66386,8969	9,63247,12602 20,91652	13:12
23	39442,31137,06500 16,03773,48734	42922,04697 20,67026	1 08822,34199 8,15449	9,59596,23572,3535 17,65536,5143	9,63268,04254 20,90959	13:48
24	39458,34910,55234 16,03653,29033	42942,71723 20,67337	1 08830,49648 8,15902	9,59613,89108,8678 17,64686,8228	9,63288,95213 20,90265	14:24
25	39474,38563,84267 16,03533,04448	42963,39060 20,67646	1 08838,65550 8,16357	9,59631,53795,6906 17,63837,8216	9,63309,85478 20,89573	15: 0
26	39490,42096,88715 16,03412,74978	42984,06706 20,67957	1 08846,81907 8,16810	9,59649,17633,5122 17,62989,5097	9,63330,75051 20,88882	15:36
27	39506,45509,63693 16,03292,40623	43004,74663 20,68267	1 08854,98717 8,17265	9,59666,80623,0219 17,62141,8862	9,63351,63933 20,88190	16:12
28	39522,48802,04316 16,03172,01386	43025,42930 20,68578	1 08863,15982 8,17719	9,59684,42764,9081 17,61294,9504	9,63372,52123 20,87501	16:48
29	39538,51974,05702 16,03051,57263	43046,11508 20,68888	1 08871,33701 8,18174	9,59702,04059,8585 17,60448,7011	9,63393,39624 20,86811	17:24
30	39554,55025,62965 16,02931,08258	43066,80396 20,69200	1 08879,51875 8,18629	9,59719,64508,5596 17,59603,1378	9,63414,26435 20,86122	18: 0
31	39570,57956,71223 16,02810,54371	43087,49596 20,69511	1 08887,70504 8,19083	9,59737,24111,6974 17,58758,2592	9,63435,12557 20,85434	18:36
32	39586,60767,25594 16,02689,95600	43108,19107 20,69822	1 08895,89587 8,19538	9,59754,82869,9566 17,57914,0648	9,63455,97991 20,84747	19:12
33	39602,63457,21194 16,02569,31948	43128,88929 20,70134	1 08904,09125 8,19994	9,59772,40784,0214 17,57070,5534	9,63476,82738 20,84060	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	92050,48534,52440 6,82094,66566	2 35585,23658 114,27278	2 55930,46652 105,18475	9,96402,60827,0647 3,21824,4034	10,37214,80710 21,07096	60: 0
99	92043,66439,85874 6,82375,04669	2 35470,96380 114,17890	2 55825,28177 105,09055	9,96399,39002,6613 3,21980,5567	10,37193,73614 21,06387	59:24
98	92036,84064,81205 6,82655,40695	2 35356,78490 114,08513	2 55720,19122 104,99646	9,96396,17022,1046 3,22136,7333	10,37172,67227 21,05678	58:48
97	92030,01409,40510 6,82935,74640	2 35242,69977 113,99149	2 55615,19476 104,90249	9,96392,94885,3713 3,22292,9329	10,37151,61549 21,04969	58:12
96	92023,18473,65870 6,83216,06505	2 35128,70828 113,89797	2 55510,29227 104,80865	9,96389,72592,4384 3,22449,1557	10,37130,56580 21,04262	57:36
95	92016,35257,59365 6,83496,36288	2 35014,81031 113,80457	2 55405,48362 104,71493	9,96386,50143,2827 3,22605,4018	10,37109,52318 21,03556	57: 0
94	92009,51761,23077 6,83776,63991	2 34901,00574 113,71130	2 55300,76869 104,62132	9,96383,27537,8809 3,22761,6710	10,37088,48762 21,02849	56:24
93	92002,67984,59086 6,84056,89609	2 34787,29444 113,61814	2 55196,14737 104,52785	9,96380,04776,2099 3,22917,9635	10,37067,45913 21,02144	55:48
92	91995,83927,69477 6,84337,13144	2 34673,67630 113,52510	2 55091,61952 104,43449	9,96376,81858,2464 3,23074,2792	10,37046,43769 21,01440	55:12
91	91988,99590,56333 6,84617,34595	2 34560,15120 113,43219	2 54987,18503 104,34125	9,96373,58783,9672 3,23230,6182	10,37025,42329 21,00736	54:36
90	91982,14973,21738 6,84897,53960	2 34446,71901 113,33940	2 54882,84378 104,24814	9,96370,35553,3490 3,23386,9805	10,37004,41593 21,00032	54: 0
89	91975,30075,67778 6,85177,71239	2 34333,37961 113,24673	2 54778,59564 104,15514	9,96367,12166,3685 3,23543,3661	10,36983,41561 20,99331	53:24
88	91968,44897,96539 6,85457,86430	2 34220,13288 113,15418	2 54674,44050 104,06226	9,96363,88623,0024 3,23699,7748	10,36962,42230 20,98628	52:48
87	91961,59440,10109 6,85737,99534	2 34106,97870 113,06175	2 54570,37824 103,96951	9,96360,64923,2276 3,23856,2071	10,36941,43602 20,97928	52:12
86	91954,73702,10575 6,86018,10549	2 33993,91695 112,96943	2 54466,40873 103,87688	9,96357,41067,0205 3,24012,6625	10,36920,45674 20,97228	51:36
85	91947,87684,00026 6,86298,19473	2 33880,94752 112,87725	2 54362,53185 103,78436	9,96354,17054,3580 3,24169,1414	10,36899,48446 20,96528	51: 0
84	91941,01385,80553 6,86578,26308	2 33768,07027 112,78518	2 54258,74749 103,69196	9,96350,92885,2166 3,24325,6437	10,36878,51918 20,95829	50:24
83	91934,14807,54245 6,86858,31051	2 33655,28509 112,69322	2 54155,05553 103,59969	9,96347,68559,5729 3,24482,1691	10,36857,56089 20,95132	49:48
82	91927,27949,23194 6,87138,33701	2 33542,59187 112,60139	2 54051,45584 103,50753	9,96344,44077,4038 3,24638,7182	10,36836,60957 20,94434	49:12
81	91920,40810,89493 6,87418,34259	2 33429,99048 112,50968	2 53947,94831 103,41549	9,96341,19438,6856 3,24795,2906	10,36815,66523 20,93737	48:36
80	91913,53392,55234 6,87698,32722	2 33317,48080 112,41809	2 53844,53282 103,32357	9,96337,94643,3950 3,24951,8863	10,36794,72786 20,93042	48: 0
79	91906,65694,22512 6,87978,29091	2 33205,06271 112,32661	2 53741,20925 103,23177	9,96334,69691,5087 3,25108,5056	10,36773,79744 20,92346	47:24
78	91899,77715,93421 6,88258,23363	2 33092,73610 112,23525	2 53637,97748 103,14008	9,96331,44583,0031 3,25265,1483	10,36752,87398 20,91652	46:48
77	91892,89457,70058 6,88538,15541	2 32980,50085 112,14402	2 53534,83740 103,04852	9,96328,19317,8548 3,25421,8145	10,36731,95746 20,90959	46:12
76	91886,00919,54517 6,88818,05619	2 32868,35683 112,05289	2 53431,78888 102,95708	9,96324,93896,0403 3,25578,5040	10,36711,04787 20,90265	45:36
75	91879,12101,48898 6,89097,93600	2 32756,30394 111,96189	2 53328,83180 102,86574	9,96321,68317,5363 3,25735,2172	10,36690,14522 20,89573	45: 0
74	91872,23003,55298 6,89377,79481	2 32644,34205 111,87101	2 53225,96606 102,77453	9,96318,42582,3191 3,25891,9539	10,36669,24949 20,88882	44:24
73	91865,33625,75817 6,89657,63263	2 32532,47104 111,78023	2 53123,19153 102,68344	9,96315,16690,3652 3,26048,7140	10,36648,36067 20,88190	43:48
72	91858,43968,12554 6,89937,44944	2 32420,69081 111,68959	2 53020,50809 102,59246	9,96311,90641,6512 3,26205,4977	10,36627,47877 20,87501	43:12
71	91851,54030,67610 6,90217,24523	2 32309,00122 111,59905	2 52917,91563 102,50160	9,96308,64436,1535 3,26362,3050	10,36606,60376 20,86811	42:36
70	91844,63813,43087 6,90497,01999	2 32197,40217 111,50864	2 52815,41403 102,41085	9,96305,38073,8485 3,26519,1358	10,36585,73565 20,86122	42: 0
69	91837,73316,41088 6,90776,77373	2 32085,89353 111,41833	2 52713,00318 102,32023	9,96302,11554,7127 3,26675,9902	10,36564,87443 20,85434	41:24
68	91830,82539,63715 6,91056,50642	2 31974,47520 111,32816	2 52610,68295 102,22971	9,96298,84878,7225 3,26832,8683	10,36544,02009 20,84747	40:48
67	91823,91483,13073 6,91336,21806	2 31863,14704 111,23808	2 52508,45324 102,13932	9,96295,58045,8542 3,26989,7698	10,36523,17262 20,84060	40:12

GRAD. 66.

23. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	39602,63457,21194 16,02569,31948	43128,88929 20,70134	1 08904,09125 8,19994	9,59772,40784,0214 17,57070,5534	9,63476,82738 20,84060	19:48
34	39618,66026,53142 16,02448,63414	43149,59063 20,70446	1 08912,29119 8,20449	9,59789,97854,5748 17,56227,7243	9,63497,66798 20,83375	20:24
35	39634,68475,16556 16,02327,89998	43170,29509 20,70758	1 08920,49568 8,20904	9,59807,54082,2991 17,55385,5767	9,63518,50173 20,82689	21: 0
36	39650,70803,06554 16,02207,11702	43191,00267 20,71070	1 08928,70472 8,21360	9,59825,09467,8758 17,54544,1094	9,63539,32862 20,82005	21:36
37	39666,73010,18256 16,02086,28526	43211,71337 20,71382	1 08936,91832 8,21815	9,59842,64011,9852 17,53703,3219	9,63560,14867 20,81321	22:12
38	39682,75096,46782 16,01965,40468	43232,42719 20,71696	1 08945,13647 8,22272	9,59860,17715,3071 17,52863,2130	9,63580,96188 20,80638	22:48
39	39698,77061,87250 16,01844,47531	43253,14415 20,72007	1 08953,35919 8,22727	9,59877,70578,5201 17,52023,7821	9,63601,76826 20,79955	23:24
40	39714,78906,34781 16,01723,49714	43273,86422 20,72321	1 08961,58646 8,23184	9,59895,22602,3022 17,51185,0282	9,63622,56781 20,79274	24: 0
41	39730,80629,84495 16,01602,47019	43294,58743 20,72635	1 08969,81830 8,23641	9,59912,73787,3304 17,50346,9504	9,63643,36055 20,78593	24:36
42	39746,82232,31514 16,01481,39444	43315,31378 20,72947	1 08978,05471 8,24096	9,59930,24134,2808 17,49509,5479	9,63664,14648 20,77912	25:12
43	39762,83713,70958 16,01360,26992	43336,04325 20,73261	1 08986,29567 8,24554	9,59947,73643,8287 17,48672,8198	9,63684,92560 20,77233	25:48
44	39778,85073,97950 16,01239,09660	43356,77586 20,73575	1 08994,54121 8,25010	9,59965,22316,6485 17,47836,7653	9,63705,69793 20,76554	26:24
45	39794,86313,07610 16,01117,87453	43377,51161 20,73889	1 09002,79131 8,25467	9,59982,70153,4138 17,47001,3834	9,63726,46347 20,75876	27: 0
46	39810,87430,95063 16,00996,60366	43398,25050 20,74203	1 09011,04598 8,25925	9,60000,17154,7972 17,46166,6732	9,63747,22223 20,75198	27:36
47	39826,88427,55429 16,00875,28404	43418,99253 20,74518	1 09019,30523 8,26382	9,60017,63321,4704 17,45332,6342	9,63767,97421 20,74522	28:12
48	39842,89302,83833 16,00753,91564	43439,73771 20,74832	1 09027,56905 8,26839	9,60035,08654,1046 17,44499,2652	9,63788,71943 20,73845	28:48
49	39858,90056,75397 16,00632,49849	43460,48603 20,75147	1 09035,83744 8,27297	9,60052,53153,3698 17,43666,5653	9,63809,45788 20,73170	29:24
50	39874,90689,25246 16,00511,03258	43481,23750 20,75461	1 09044,11041 8,27754	9,60069,96819,9351 17,42834,5340	9,63830,18958 20,72495	30: 0
51	39890,91200,28504 16,00389,51791	43501,99211 20,75778	1 09052,38795 8,28213	9,60087,39654,4691 17,42003,1701	9,63850,91453 20,71822	30:36
52	39906,91589,80295 16,00267,95450	43522,74989 20,76092	1 09060,67008 8,28670	9,60104,81657,6392 17,41172,4728	9,63871,63275 20,71147	31:12
53	39922,91857,75745 16,00146,34233	43543,51081 20,76408	1 09068,95678 8,29129	9,60122,22830,1120 17,40342,4415	9,63892,34422 20,70476	31:48
54	39938,92004,09978 16,00024,68142	43564,27489 20,76724	1 09077,24807 8,29587	9,60139,63172,5535 17,39513,0751	9,63913,04898 20,69803	32:24
55	39954,92028,78120 15,99902,97178	43585,04213 20,77040	1 09085,54394 8,30046	9,60157,02685,6286 17,38684,3727	9,63933,74701 20,69132	33: 0
56	39970,91931,75298 15,99781,21339	43605,81253 20,77356	1 09093,84440 8,30504	9,60174,41370,0013 17,37856,3337	9,63954,43833 20,68461	33:36
57	39986,91712,96637 15,99659,40628	43626,58609 20,77672	1 09102,14944 8,30964	9,60191,79226,3350 17,37028,9571	9,63975,12294 20,67792	34:12
58	40002,91372,37265 15,99537,55043	43647,36281 20,77989	1 09110,45908 8,31422	9,60209,16255,2921 17,36202,2421	9,63995,80086 20,67122	34:48
59	40018,90909,92308 15,99415,64587	43668,14270 20,78305	1 09118,77330 8,31882	9,60226,52457,5342 17,35376,1878	9,64016,47208 20,66454	35:24
60	40034,90325,56895 15,99293,69258	43688,92575 20,78623	1 09127,09212 8,32340	9,60243,87833,7220 17,34550,7934	9,64037,13662 20,65786	36: 0
61	40050,89619,26153 15,99171,69057	43709,71198 20,78940	1 09135,41552 8,32801	9,60261,22384,5154 17,33726,0581	9,64057,79448 20,65118	36:36
62	40066,88790,95210 15,99049,63985	43730,50138 20,79257	1 09143,74353 8,33259	9,60278,56110,5735 17,32901,9809	9,64078,44566 20,64453	37:12
63	40082,87840,59195 15,98927,54042	43751,29395 20,79575	1 09152,07612 8,33720	9,60295,89012,5544 17,32078,5611	9,64099,09019 20,63786	37:48
64	40098,86768,13237 15,98805,39229	43772,08970 20,79892	1 09160,41332 8,34180	9,60313,21091,1155 17,31255,7980	9,64119,72805 20,63121	38:24
65	40114,85573,52466 15,98683,19545	43792,88862 20,80211	1 09168,75512 8,34640	9,60330,52346,9135 17,30433,6904	9,64140,35926 20,62457	39: 0
66	40130,84256,72011 15,98560,94991	43813,69073 20,80529	1 09177,10152 8,35099	9,60347,82780,6039 17,29612,2379	9,64160,98383 20,61793	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	91823,91483,13073 6,91336,21806	2 31863,14704 111,23808	2 52508,45324 102,13932	9,96295,58045,8542 3,26989,7698	10,36523,17262 20,84060	40:12
66	91817,00146,91267 6,91615,90864	2 31751,90896 111,14813	2 52406,31392 102,04904	9,96292,31056,0844 3,27146,6951	10,36502,33202 20,83375	39:36
65	91810,08531,00403 6,91895,57815	2 31640,76083 111,05830	2 52304,26488 101,95888	9,96289,03909,3893 3,27303,6440	10,36481,49827 20,82689	39: 0
64	91803,16635,42588 6,92175,22659	2 31529,70253 110,96858	2 52202,30600 101,86882	9,96285,76605,7453 3,27460,6166	10,36460,67138 20,82005	38:24
63	91796,24460,19929 6,92454,85393	2 31418,73395 110,87897	2 52100,43718 101,77890	9,96282,49145,1287 3,27617,6128	10,36439,85133 20,81321	37:48
62	91789,32005,34536 6,92734,46020	2 31307,85498 110,78948	2 51998,65828 101,68908	9,96279,21527,5159 3,27774,6327	10,36419,03812 20,80638	37:12
61	91782,39270,88516 6,93014,04535	2 31197,06550 110,70011	2 51896,96920 101,59937	9,96275,93752,8832 3,27931,6763	10,36398,23174 20,79955	36:36
60	91775,46256,83981 6,93293,60939	2 31086,36539 110,61085	2 51795,36983 101,50978	9,96272,65821,2069 3,28088,7437	10,36377,43219 20,79274	36: 0
59	91768,52963,23042 6,93573,15233	2 30975,75454 110,52171	2 51693,86005 101,42031	9,96269,37732,4632 3,28245,8347	10,36356,63945 20,78593	35:24
58	91761,59390,07809 6,93852,67412	2 30865,23283 110,43267	2 51592,43974 101,33096	9,96266,09486,6285 3,28402,9496	10,36335,85352 20,77912	34:48
57	91754,65537,40397 6,94132,17478	2 30754,80016 110,34376	2 51491,10878 101,24170	9,96262,81083,6789 3,28560,0881	10,36315,07440 20,77233	34:12
56	91747,71405,22919 6,94411,65431	2 30644,45640 110,25495	2 51389,86708 101,15258	9,96259,52523,5908 3,28717,2505	10,36294,30207 20,76554	33:36
55	91740,76993,57488 6,94691,11267	2 30534,20145 110,16627	2 51288,71450 101,06355	9,96256,23806,3403 3,28874,4367	10,36273,53653 20,75876	33: 0
54	91733,82302,46221 6,94970,54987	2 30424,03518 110,07769	2 51187,65095 100,97465	9,96252,94931,9036 3,29031,6466	10,36252,77777 20,75198	32:24
53	91726,87331,91234 6,95249,96591	2 30313,95749 109,98923	2 51086,67630 100,88586	9,96249,65900,2570 3,29188,8804	10,36232,02579 20,74522	31:48
52	91719,92081,94643 6,95529,36076	2 30203,96826 109,90089	2 50985,79044 100,79719	9,96246,36711,3766 3,29346,1380	10,36211,28057 20,73845	31:12
51	91712,96552,58567 6,95808,73443	2 30094,06737 109,81265	2 50884,99325 100,70861	9,96243,07365,2386 3,29503,4195	10,36190,54212 20,73170	30:36
50	91706,00743,85124 6,96088,08690	2 29984,25472 109,72452	2 50784,28464 100,62017	9,96239,77861,8191 3,29660,7249	10,36169,81042 20,72495	30: 0
49	91699,04655,76434 6,96367,41818	2 29874,53020 109,63652	2 50683,66447 100,53182	9,96236,48201,0942 3,29818,0541	10,36149,08547 20,71822	29:24
48	91692,08288,34616 6,96646,72823	2 29764,89368 109,54862	2 50583,13265 100,44360	9,96233,18383,0401 3,29975,4072	10,36128,36725 20,71147	28:48
47	91685,11641,61793 6,96926,01706	2 29655,34506 109,46084	2 50482,68905 100,35548	9,96229,88407,6329 3,30132,7842	10,36107,65578 20,70476	28:12
46	91678,14715,60087 6,97205,28467	2 29545,88422 109,37317	2 50382,33357 100,26748	9,96226,58274,8487 3,30290,1852	10,36086,95102 20,69803	27:36
45	91671,17510,31620 6,97484,53104	2 29436,51105 109,28560	2 50282,06609 100,17959	9,96223,27984,6635 3,30447,6101	10,36066,25299 20,69132	27: 0
44	91664,20025,78516 6,97763,75616	2 29327,22545 109,19816	2 50181,88650 100,09181	9,96219,97537,0534 3,30605,0590	10,36045,56167 20,68461	26:24
43	91657,22262,02900 6,98042,96002	2 29218,02729 109,11082	2 50081,79469 100,00414	9,96216,66931,9944 3,30762,5318	10,36024,87706 20,67792	25:48
42	91650,24219,06898 6,98322,14263	2 29108,91647 109,02359	2 49981,79055 99,91658	9,96213,36169,4626 3,30920,0287	10,36004,19914 20,67122	25:12
41	91643,25896,92635 6,98601,30395	2 28999,89288 108,93648	2 49881,87397 99,82913	9,96210,05249,4339 3,31077,5495	10,35983,52792 20,66454	24:36
40	91636,27295,62240 6,98880,44401	2 28890,95640 108,84948	2 49782,04484 99,74180	9,96206,74171,8844 3,31235,0943	10,35962,86338 20,65786	24: 0
39	91629,28415,17839 6,99159,56277	2 28782,10692 108,76258	2 49682,30304 99,65458	9,96203,42936,7901 3,31392,6632	10,35942,20552 20,65118	23:24
38	91622,29255,61562 6,99438,66023	2 28673,34434 108,67580	2 49582,64846 99,56746	9,96200,11544,1269 3,31550,2562	10,35921,55434 20,64453	22:48
37	91615,29816,95539 6,99717,73638	2 28564,66854 108,58913	2 49483,08100 99,48046	9,96196,79993,8707 3,31707,8732	10,35900,90981 20,63786	22:12
36	91608,30099,21901 6,99996,79123	2 28456,07941 108,50257	2 49383,60054 99,39356	9,96193,48285,9975 3,31865,5142	10,35880,27195 20,63121	21:36
35	91601,30102,42778 7,00275,82475	2 28347,57684 108,41612	2 49284,20698 99,30678	9,96190,16420,4833 3,32023,1794	10,35859,64074 20,62457	21: 0
34	91594,29826,60303 7,00554,83693	2 28239,16072 108,32977	2 49184,90020 99,22011	9,96186,84397,3039 3,32180,8687	10,35839,01617 20,61793	20:24

GRAD. 66.

23. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	40146,82817,67002	43834,49602	1 09185,45251	9,60365,12392,8418	9,64181,60176	40:12
	15,98438,65568	20,80847	8,35561	17,28791,4392	20,61130	
68	40162,81256,32570	43855,30449	1 09193,80812	9,60382,41184,2810	9,64202,21306	40:48
	15,98316,31276	20,81165	8,36021	17,27971,2938	20,60468	
69	40178,79572,63846	43876,11614	1 09202,16833	9,60399,69155,5748	9,64222,81774	41:24
	15,98193,92114	20,81485	8,36482	17,27151,8008	20,59806	
70	40194,77766,55960	43896,93099	1 09210,53315	9,60416,96307,3756	9,64243,41580	42: 0
	15,98071,48085	20,81803	8,36942	17,26332,9594	20,59145	
71	40210,75838,04045	43917,74902	1 09218,90257	9,60434,22640,3350	9,64264,00725	42:36
	15,97948,99188	20,82122	8,37404	17,25514,7686	20,58484	
72	40226,73787,03233	43938,57024	1 09227,27661	9,60451,48155,1036	9,64284,59209	43:12
	15,97826,45423	20,82442	8,37865	17,24697,2278	20,57825	
73	40242,71613,48656	43959,39466	1 09235,65526	9,60468,72852,3314	9,64305,17034	43:48
	15,97703,86790	20,82762	8,38326	17,23880,3361	20,57166	
74	40258,69317,35446	43980,22228	1 09244,03852	9,60485,96732,6675	9,64325,74200	44:24
	15,97581,23291	20,83081	8,38787	17,23064,0925	20,56507	
75	40274,66898,58737	44001,05309	1 09252,42639	9,60503,19796,7600	9,64346,30707	45: 0
	15,97458,54926	20,83401	8,39250	17,22248,4965	20,55850	
76	40290,64357,13663	44021,88710	1 09260,81889	9,60520,42045,2565	9,64366,86557	45:36
	15,97335,81693	20,83721	8,39711	17,21433,5471	20,55192	
77	40306,61692,95356	44042,72431	1 09269,21600	9,60537,63478,8036	9,64387,41749	46:12
	15,97213,03596	20,84042	8,40173	17,20619,2433	20,54537	
78	40322,58905,98952	44063,56473	1 09277,61773	9,60554,84098,0469	9,64407,96286	46:48
	15,97090,20633	20,84363	8,40635	17,19805,5847	20,53880	
79	40338,55996,19585	44084,40836	1 09286,02408	9,60572,03903,6316	9,64428,50166	47:24
	15,96967,32805	20,84683	8,41098	17,18992,5702	20,53226	
80	40354,52963,52390	44105,25519	1 09294,43506	9,60589,22896,2018	9,64449,03392	48: 0
	15,96844,40112	20,85004	8,41560	17,18180,1990	20,52571	
81	40370,49807,92502	44126,10523	1 09302,85066	9,60606,41076,4008	9,64469,55963	48:36
	15,96721,42556	20,85325	8,42023	17,17368,4703	20,51918	
82	40386,46529,35058	44146,95848	1 09311,27089	9,60623,58444,8711	9,64490,07881	49:12
	15,96598,40134	20,85646	8,42485	17,16557,3835	20,51264	
83	40402,43127,75192	44167,81494	1 09319,69574	9,60640,75002,2546	9,64510,59145	49:48
	15,96475,32850	20,85969	8,42949	17,15746,9374	20,50612	
84	40418,39603,08042	44188,67463	1 09328,12523	9,60657,90749,1920	9,64531,09757	50:24
	15,96352,20703	20,86290	8,43411	17,14937,1316	20,49961	
85	40434,35955,28745	44209,53753	1 09336,55934	9,60675,05686,3236	9,64551,59718	51: 0
	15,96229,03692	20,86612	8,43875	17,14127,9649	20,49309	
86	40450,32184,32437	44230,40365	1 09344,99809	9,60692,19814,2885	9,64572,09027	51:36
	15,96105,81820	20,86934	8,44338	17,13319,4369	20,48660	
87	40466,28290,14257	44251,27299	1 09353,44147	9,60709,33133,7254	9,64592,57687	52:12
	15,95982,55085	20,87256	8,44802	17,12511,5464	20,48009	
88	40482,24272,69342	44272,14555	1 09361,88949	9,60726,45645,2718	9,64613,05696	52:48
	15,95859,23489	20,87579	8,45265	17,11704,2929	20,47361	
89	40498,20131,92831	44293,02134	1 09370,34214	9,60743,57349,5647	9,64633,53057	53:24
	15,95735,87032	20,87902	8,45729	17,10897,6755	20,46712	
90	40514,15867,79863	44313,90036	1 09378,79943	9,60760,68247,2402	9,64653,99769	54: 0
	15,95612,45712	20,88225	8,46194	17,10091,6933	20,46064	
91	40530,11480,25575	44334,78261	1 09387,26137	9,60777,78338,9335	9,64674,45833	54:36
	15,95488,99534	20,88548	8,46657	17,09286,3456	20,45417	
92	40546,06969,25109	44355,66809	1 09395,72794	9,60794,87625,2791	9,64694,91250	55:12
	15,95365,48495	20,88872	8,47122	17,08481,6316	20,44771	
93	40562,02334,73604	44376,55681	1 09404,19916	9,60811,96106,9107	9,64715,36021	55:48
	15,95241,92596	20,89195	8,47587	17,07677,5505	20,44126	
94	40577,97576,66200	44397,44876	1 09412,67503	9,60829,03784,4612	9,64735,80147	56:24
	15,95118,31838	20,89519	8,48051	17,06874,1015	20,43480	
95	40593,92694,98038	44418,34395	1 09421,15554	9,60846,10658,5627	9,64756,23627	57: 0
	15,94994,66220	20,89842	8,48516	17,06071,2837	20,42835	
96	40609,87689,64258	44439,24237	1 09429,64070	9,60863,16729,8464	9,64776,66462	57:36
	15,94870,95745	20,90168	8,48981	17,05269,0966	20,42192	
97	40625,82560,60003	44460,14405	1 09438,13051	9,60880,21998,9430	9,64797,08654	58:12
	15,94747,20410	20,90491	8,49446	17,04467,5390	20,41549	
98	40641,77307,80413	44481,04896	1 09446,62497	9,60897,26466,4820	9,64817,50203	58:48
	15,94623,40218	20,90816	8,49911	17,03666,6105	20,40906	
99	40657,71931,20631	44501,95712	1 09455,12408	9,60914,30133,0925	9,64837,91109	59:24
	15,94499,55169	20,91141	8,50377	17,02866,3100	20,40265	
100	40673,66430,75800	44522,86853	1 09463,62785	9,60931,32999,4025	9,64858,31374	60: 0
	15,94375,65262	20,91466	8,50843	17,02066,6369	20,39623	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	91587,29271,76610	2 28130,83095	2 49085,68009	9,96183,52216,4352	10,35818,39824	19:48
	7,00833,82779	108,24355	99,13354	3,32338,5821	20,61130	
32	91580,28437,93831	2 28022,58740	2 48986,54655	9,96180,19877,8531	10,35797,78694	19:12
	7,01112,79728	108,15742	99,04708	3,32496,3196	20,60468	
31	91573,27325,14103	2 27914,42998	2 48887,49947	9,96176,87381,5335	10,35777,18226	18:36
	7,01391,74542	108,07141	98,96074	3,32654,0813	20,59806	
30	91566,25933,39561	2 27806,35857	2 48788,53873	9,96173,54727,4522	10,35756,58420	18: 0
	7,01670,67220	107,98551	98,87450	3,32811,8672	20,59145	
29	91559,24262,72341	2 27698,37306	2 48689,66423	9,96170,21915,5850	10,35735,99275	17:24
	7,01949,57760	107,89971	98,78837	3,32969,6773	20,58484	
28	91552,22313,14581	2 27590,47335	2 48590,87586	9,96166,88945,9077	10,35715,40791	16:48
	7,02228,46162	107,81403	98,70236	3,33127,5115	20,57825	
27	91545,20084,68419	2 27482,65932	2 48492,17350	9,96163,55818,3962	10,35694,82966	16:12
	7,02507,32424	107,72845	98,61644	3,33285,3700	20,57166	
26	91538,17577,35995	2 27374,93087	2 48393,55706	9,96160,22533,0262	10,35674,25800	15:36
	7,02786,16548	107,64298	98,53064	3,33443,2526	20,56507	
25	91531,14791,19447	2 27267,28789	2 48295,02642	9,96156,89089,7736	10,35653,69293	15: 0
	7,03064,98529	107,55762	98,44494	3,33601,1597	20,55850	
24	91524,11726,20918	2 27159,73027	2 48196,58148	9,96153,55488,6139	10,35633,13443	14:24
	7,03343,78370	107,47236	98,35936	3,33759,0908	20,55192	
23	91517,08382,42548	2 27052,25791	2 48098,22212	9,96150,21729,5231	10,35612,58251	13:48
	7,03622,56068	107,38723	98,27387	3,33917,0463	20,54537	
22	91510,04759,86480	2 26944,87068	2 47999,94825	9,96146,87812,4768	10,35592,03714	13:12
	7,03901,31623	107,30218	98,18851	3,34075,0261	20,53880	
21	91503,00858,54857	2 26837,56850	2 47901,75974	9,96143,53737,4507	10,35571,49834	12:36
	7,04180,05032	107,21726	98,10324	3,34233,0301	20,53226	
20	91495,96678,49825	2 26730,35124	2 47803,65650	9,96140,19504,4206	10,35550,96608	12: 0
	7,04458,76298	107,13243	98,01808	3,34391,0586	20,52571	
19	91488,92219,73527	2 26623,21881	2 47705,63842	9,96136,85113,3620	10,35530,44037	11:24
	7,04737,45417	107,04772	97,93303	3,34549,1113	20,51918	
18	91481,87482,28110	2 26516,17109	2 47607,70539	9,96133,50564,2507	10,35509,92119	10:48
	7,05016,12390	106,96311	97,84809	3,34707,1884	20,51264	
17	91474,82466,15720	2 26409,20798	2 47509,85730	9,96130,15857,0623	10,35489,40855	10:12
	7,05294,77215	106,87860	97,76325	3,34865,2899	20,50612	
16	91467,77171,38505	2 26302,32938	2 47412,09405	9,96126,80991,7724	10,35468,90243	9:36
	7,05573,39891	106,79422	97,67852	3,35023,4157	20,49961	
15	91460,71597,98614	2 26195,53516	2 47314,41553	9,96123,45968,3567	10,35448,40282	9: 0
	7,05852,00419	106,70992	97,59390	3,35181,5659	20,49309	
14	91453,65745,98195	2 26088,82524	2 47216,82163	9,96120,10786,7908	10,35427,90973	8:24
	7,06130,58796	106,62575	97,50938	3,35339,7406	20,48660	
13	91446,59615,39399	2 25982,19949	2 47119,31225	9,96116,75447,0502	10,35407,42313	7:48
	7,06409,15022	106,54166	97,42496	3,35497,9397	20,48009	
12	91439,53206,24377	2 25875,65783	2 47021,88729	9,96113,39949,1105	10,35386,94304	7:12
	7,06687,69096	106,45770	97,34066	3,35656,1632	20,47361	
11	91432,46518,55281	2 25769,20013	2 46924,54663	9,96110,04292,9473	10,35366,46943	6:36
	7,06966,21017	106,37383	97,25646	3,35814,4112	20,46712	
10	91425,39552,34264	2 25662,82630	2 46827,29017	9,96106,68478,5361	10,35346,00231	6: 0
	7,07244,70786	106,29008	97,17236	3,35972,6836	20,46064	
9	91418,32307,63478	2 25556,53622	2 46730,11781	9,96103,32505,8525	10,35325,54167	5:24
	7,07523,18399	106,20642	97,08837	3,36130,9806	20,45417	
8	91411,24784,45079	2 25450,32980	2 46633,02944	9,96099,96374,8719	10,35305,08750	4:48
	7,07801,63858	106,12287	97,00449	3,36289,3021	20,44771	
7	91404,16982,81221	2 25344,20693	2 46536,02495	9,96096,60085,5698	10,35284,63979	4:12
	7,08080,07160	106,03942	96,92071	3,36447,6480	20,44126	
6	91397,08902,74061	2 25238,16751	2 46439,10424	9,96093,23637,9218	10,35264,19853	3:36
	7,08358,48305	105,95609	96,83702	3,36606,0185	20,43480	
5	91390,00544,25756	2 25132,21142	2 46342,26722	9,96089,87031,9033	10,35243,76373	3: 0
	7,08636,87293	105,87286	96,75346	3,36764,4136	20,42835	
4	91382,91907,38463	2 25026,33856	2 46245,51376	9,96086,50267,4897	10,35223,33538	2:24
	7,08915,24122	105,78973	96,66999	3,36922,8333	20,42192	
3	91375,82992,14341	2 24920,54883	2 46148,84377	9,96083,13344,6564	10,35202,91346	1:48
	7,09193,58791	105,70670	96,58663	3,37081,2774	20,41549	
2	91368,73798,55550	2 24814,84213	2 46052,25714	9,96079,76263,3790	10,35182,49797	1:12
	7,09471,91301	105,62378	96,50337	3,37239,7463	20,40906	
1	91361,64326,64249	2 24709,21835	2 45955,75377	9,96076,39023,6327	10,35162,08891	0:36
	7,09750,21648	105,54096	96,42021	3,37398,2397	20,40265	
0	91354,54576,42601	2 24603,67739	2 45859,33356	9,96073,01625,3930	10,35141,68626	0: 0
	7,10028,49834	105,45825	96,33716	3,37556,7577	20,39623	

GRAD. 66.

24. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	40673,66430,75800 15,94375,65262	44522,86853 20,91466	1 09463,62785 8,50843	9,60931,32999,4025 17,02066,6369	9,64858,31374 20,39623	0: 0
1	40689,60806,41062 15,94251,70499	44543,78319 20,91791	1 09472,13628 8,51308	9,60948,35066,0394 17,01267,5904	9,64878,70997 20,38983	0:36
2	40705,55058,11561 15,94127,70879	44564,70110 20,92117	1 09480,64936 8,51774	9,60965,36333,6298 17,00469,1697	9,64899,09980 20,38343	1:12
3	40721,49185,82440 15,94003,66404	44585,62227 20,92442	1 09489,16710 8,52241	9,60982,36802,7995 16,99671,3739	9,64919,48323 20,37704	1:48
4	40737,43189,48844 15,93879,57072	44606,54669 20,92768	1 09497,68951 8,52707	9,60999,36474,1734 16,98874,2024	9,64939,86027 20,37065	2:24
5	40753,37069,05916 15,93755,42885	44627,47437 20,93094	1 09506,21658 8,53173	9,61016,35348,3758 16,98077,6542	9,64960,23092 20,36428	3: 0
6	40769,30824,48801 15,93631,23844	44648,40531 20,93420	1 09514,74831 8,53640	9,61033,33426,0300 16,97281,7288	9,64980,59520 20,35790	3:36
7	40785,24455,72645 15,93506,99948	44669,33951 20,93747	1 09523,28471 8,54106	9,61050,30707,7588 16,96486,4252	9,65000,95310 20,35153	4:12
8	40801,17962,72593 15,93382,71198	44690,27698 20,94074	1 09531,82577 8,54574	9,61067,27194,1840 16,95691,7427	9,65021,30463 20,34518	4:48
9	40817,11345,43791 15,93258,37594	44711,21772 20,94400	1 09540,37151 8,55040	9,61084,22885,9267 16,94897,6805	9,65041,64981 20,33882	5:24
10	40833,04603,81385 15,93133,99137	44732,16172 20,94727	1 09548,92191 8,55508	9,61101,17783,6072 16,94104,2380	9,65061,98863 20,33248	6: 0
11	40848,97737,80522 15,93009,55827	44753,10899 20,95055	1 09557,47699 8,55975	9,61118,11887,8452 16,93311,4140	9,65082,32111 20,32613	6:36
12	40864,90747,36349 15,92885,07664	44774,05954 20,95382	1 09566,03674 8,56443	9,61135,05199,2592 16,92519,2083	9,65102,64724 20,31980	7:12
13	40880,83632,44013 15,92760,54650	44795,01336 20,95709	1 09574,60117 8,56911	9,61151,97718,4675 16,91727,6196	9,65122,96704 20,31348	7:48
14	40896,76392,98663 15,92635,96783	44815,97045 20,96038	1 09583,17028 8,57378	9,61168,89446,0871 16,90936,6475	9,65143,28052 20,30715	8:24
15	40912,69028,95446 15,92511,34065	44836,93083 20,96366	1 09591,74406 8,57847	9,61185,80382,7346 16,90146,2910	9,65163,58767 20,30084	9: 0
16	40928,61540,29511 15,92386,66495	44857,89449 20,96694	1 09600,32253 8,58314	9,61202,70529,0256 16,89356,5495	9,65183,88851 20,29453	9:36
17	40944,53926,96006 15,92261,94076	44878,86143 20,97022	1 09608,90567 8,58783	9,61219,59885,5751 16,88567,4221	9,65204,18304 20,28822	10:12
18	40960,46188,90082 15,92137,16805	44899,83165 20,97351	1 09617,49350 8,59252	9,61236,48452,9972 16,87778,9082	9,65224,47126 20,28194	10:48
19	40976,38326,06887 15,92012,34686	44920,80516 20,97680	1 09626,08602 8,59721	9,61253,36231,9054 16,86991,0068	9,65244,75320 20,27564	11:24
20	40992,30338,41573 15,91887,47715	44941,78196 20,98009	1 09634,68323 8,60189	9,61270,23222,9122 16,86203,7173	9,65265,02884 20,26936	12: 0
21	41008,22225,89288 15,91762,55897	44962,76205 20,98339	1 09643,28512 8,60658	9,61287,09426,6295 16,85417,0391	9,65285,29820 20,26308	12:36
22	41024,13988,45185 15,91637,59230	44983,74544 20,98668	1 09651,89170 8,61128	9,61303,94843,6686 16,84630,9710	9,65305,56128 20,25682	13:12
23	41040,05626,04415 15,91512,57713	45004,73212 20,98997	1 09660,50298 8,61596	9,61320,79474,6396 16,83845,5126	9,65325,81810 20,25055	13:48
24	41055,97138,62128 15,91387,51349	45025,72209 20,99328	1 09669,11894 8,62067	9,61337,63320,1522 16,83060,6631	9,65346,06865 20,24429	14:24
25	41071,88526,13477 15,91262,40138	45046,71537 20,99658	1 09677,73961 8,62536	9,61354,46380,8153 16,82276,4216	9,65366,31294 20,23804	15: 0
26	41087,79788,53615 15,91137,24078	45067,71195 20,99988	1 09686,36497 8,63006	9,61371,28657,2369 16,81492,7874	9,65386,55098 20,23180	15:36
27	41103,70925,77693 15,91012,03173	45088,71183 21,00318	1 09694,99503 8,63476	9,61388,10150,0243 16,80709,7599	9,65406,78278 20,22556	16:12
28	41119,61937,80866 15,90886,77421	45109,71501 21,00650	1 09703,62979 8,63946	9,61404,90859,7842 16,79927,3382	9,65427,00834 20,21933	16:48
29	41135,52824,58287 15,90761,46822	45130,72151 21,00980	1 09712,26925 8,64416	9,61421,70787,1224 16,79145,5215	9,65447,22767 20,21310	17:24
30	41151,43586,05109 15,90636,11378	45151,73131 21,01311	1 09720,91341 8,64887	9,61438,49932,6439 16,78364,3091	9,65467,44077 20,20688	18: 0
31	41167,34222,16487 15,90510,71088	45172,74442 21,01643	1 09729,56228 8,65358	9,61455,28296,9530 16,77583,7004	9,65487,64765 20,20067	18:36
32	41183,24732,87575 15,90385,25954	45193,76085 21,01975	1 09738,21586 8,65828	9,61472,05880,6534 16,76803,6944	9,65507,84832 20,19446	19:12
33	41199,15118,13529 15,90259,75974	45214,78060 21,02306	1 09746,87414 8,66300	9,61488,82684,3478 16,76024,2906	9,65528,04278 20,18826	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	91354,54576,42601 7,10028,49834	2 24603,67739 105,45825	2 45859,33356 96,33716	9,96073,01625,3930 3,37556,7577	10,35141,68626 20,39623	60: 0
99	91347,44547,92767 7,10306,75858	2 24498,21914 105,37564	2 45762,99640 96,25422	9,96069,64068,6353 3,37715,3004	10,35121,29003 20,38983	59:24
98	91340,34241,16909 7,10584,99717	2 24392,84350 105,29313	2 45666,74218 96,17137	9,96066,26353,3349 3,37873,8678	10,35100,90020 20,38343	58:48
97	91333,23656,17192 7,10863,21411	2 24287,55037 105,21073	2 45570,57081 96,08862	9,96062,88479,4671 3,38032,4598	10,35080,51677 20,37704	58:12
96	91326,12792,95781 7,11141,40941	2 24182,33964 105,12844	2 45474,48219 96,00599	9,96059,50447,0073 3,38191,0766	10,35060,13973 20,37065	57:36
95	91319,01651,54840 7,11419,58304	2 24077,21120 105,04623	2 45378,47620 95,92345	9,96056,12255,9307 3,38349,7179	10,35039,76908 20,36428	57: 0
94	91311,90231,96536 7,11697,73501	2 23972,16497 104,96414	2 45282,55275 95,84102	9,96052,73906,2128 3,38508,3841	10,35019,40480 20,35790	56:24
93	91304,78534,23035 7,11975,86528	2 23867,20083 104,88215	2 45186,71173 95,75869	9,96049,35397,8287 3,38667,0750	10,34999,04690 20,35153	55:48
92	91297,66558,36507 7,12253,97387	2 23762,31868 104,80026	2 45090,95304 95,67646	9,96045,96730,7537 3,38825,7906	10,34978,69537 20,34518	55:12
91	91290,54304,39120 7,12532,06077	2 23657,51842 104,71847	2 44995,27658 95,59433	9,96042,57904,9631 3,38984,5310	10,34958,35019 20,33882	54:36
90	91283,41772,33043 7,12810,12596	2 23552,79995 104,63679	2 44899,68225 95,51231	9,96039,18920,4321 3,39143,2962	10,34938,01137 20,33248	54: 0
89	91276,28962,20447 7,13088,16944	2 23448,16316 104,55520	2 44804,16994 95,43038	9,96035,79777,1359 3,39302,0862	10,34917,67889 20,32613	53:24
88	91269,15874,03503 7,13366,19120	2 23343,60796 104,47373	2 44708,73956 95,34857	9,96032,40475,0497 3,39460,9010	10,34897,35276 20,31980	52:48
87	91262,02507,84383 7,13644,19122	2 23239,13423 104,39234	2 44613,39099 95,26684	9,96029,01014,1487 3,39619,7406	10,34877,03296 20,31348	52:12
86	91254,88863,65261 7,13922,16950	2 23134,74189 104,31107	2 44518,12415 95,18522	9,96025,61394,4081 3,39778,6050	10,34856,71948 20,30715	51:36
85	91247,74941,48311 7,14200,12605	2 23030,43082 104,22988	2 44422,93893 95,10371	9,96022,21615,8031 3,39937,4944	10,34836,41233 20,30084	51: 0
84	91240,60741,35706 7,14478,06083	2 22926,20094 104,14882	2 44327,83522 95,02229	9,96018,81678,3087 3,40096,4086	10,34816,11149 20,29453	50:24
83	91233,46263,29623 7,14755,97385	2 22822,05212 104,06783	2 44232,81293 94,94097	9,96015,41581,9001 3,40255,3477	10,34795,81696 20,28822	49:48
82	91226,31507,32238 7,15033,86509	2 22717,98429 103,98697	2 44137,87196 94,85976	9,96012,01326,5524 3,40414,3117	10,34775,52874 20,28194	49:12
81	91219,16473,45729 7,15311,73456	2 22613,99732 103,90619	2 44043,01220 94,77864	9,96008,60912,2407 3,40573,3006	10,34755,24680 20,27564	48:36
80	91212,01161,72273 7,15589,58224	2 22510,09113 103,82551	2 43948,23356 94,69763	9,96005,20338,9401 3,40732,3144	10,34734,97116 20,26936	48: 0
79	91204,85572,14049 7,15867,40811	2 22406,26562 103,74495	2 43853,53593 94,61671	9,96001,79606,6257 3,40891,3533	10,34714,70180 20,26308	47:24
78	91197,69704,73238 7,16145,21218	2 22302,52067 103,66447	2 43758,91922 94,53590	9,95998,38715,2724 3,41050,4171	10,34694,43872 20,25682	46:48
77	91190,53559,52020 7,16422,99444	2 22198,85620 103,58410	2 43664,38332 94,45519	9,95994,97664,8553 3,41209,5058	10,34674,18190 20,25055	46:12
76	91183,37136,52576 7,16700,75487	2 22095,27210 103,50382	2 43569,92813 94,37456	9,95991,56455,3495 3,41368,6196	10,34653,93135 20,24429	45:36
75	91176,20435,77089 7,16978,49348	2 21991,76828 103,42365	2 43475,55357 94,29406	9,95988,15086,7299 3,41527,7584	10,34633,68706 20,23804	45: 0
74	91169,03457,27741 7,17256,21023	2 21888,34463 103,34358	2 43381,25951 94,21363	9,95984,73558,9715 3,41686,9222	10,34613,44902 20,23180	44:24
73	91161,86201,06718 7,17533,90514	2 21785,00105 103,26360	2 43287,04588 94,13332	9,95981,31872,0493 3,41846,1111	10,34593,21722 20,22556	43:48
72	91154,68667,16204 7,17811,57820	2 21681,73745 103,18372	2 43192,91256 94,05310	9,95977,90025,9382 3,42005,3249	10,34572,99166 20,21933	43:12
71	91147,50855,58384 7,18089,22939	2 21578,55373 103,10395	2 43098,85946 93,97297	9,95974,48020,6133 3,42164,5640	10,34552,77233 20,21310	42:36
70	91140,32766,35445 7,18366,85870	2 21475,44978 103,02427	2 43004,88649 93,89296	9,95971,05856,0493 3,42323,8281	10,34532,55923 20,20688	42: 0
69	91133,14399,49575 7,18644,46613	2 21372,42551 102,94469	2 42910,99353 93,81303	9,95967,63532,2212 3,42483,1173	10,34512,35235 20,20067	41:24
68	91125,95755,02962 7,18922,05167	2 21269,48082 102,86521	2 42817,18050 93,73321	9,95964,21049,1039 3,42642,4316	10,34492,15168 20,19446	40:48
67	91118,76832,97795 7,19199,61531	2 21166,61561 102,78582	2 42723,44729 93,65349	9,95960,78406,6723 3,42801,7711	10,34471,95722 20,18826	40:12

GRAD. 65.

24. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	41199,15118,13529	45214,78060	1 09746,87414	9,61488,82684,3478	9,65528,04278	19:48
	15,90259,75974	21,02306	8,66300	16,76024,2906	20,18826	
34	41215,05377,89503	45235,80366	1 09755,53714	9,61505,58708,6384	9,65548,23104	20:24
	15,90134,21152	21,02638	8,66770	16,75245,4882	20,18206	
35	41230,95512,10655	45256,83004	1 09764,20484	9,61522,33954,1266	9,65568,41310	21: 0
	15,90008,61484	21,02970	8,67242	16,74467,2861	20,17588	
36	41246,85520,72139	45277,85974	1 09772,87726	9,61539,08421,4127	9,65588,58898	21:36
	15,89882,96974	21,03303	8,67714	16,73689,6842	20,16970	
37	41262,75403,69113	45298,89277	1 09781,55440	9,61555,82111,0969	9,65608,75868	22:12
	15,89757,27620	21,03635	8,68185	16,72912,6812	20,16352	
38	41278,65160,96733	45319,92912	1 09790,23625	9,61572,55023,7781	9,65628,92220	22:48
	15,89631,53424	21,03968	8,68657	16,72136,2767	20,15735	
39	41294,54792,50157	45340,96880	1 09798,92282	9,61589,27160,0548	9,65649,07955	23:24
	15,89505,74385	21,04302	8,69129	16,71360,4697	20,15119	
40	41310,44298,24542	45362,01182	1 09807,61411	9,61605,98520,5245	9,65669,23074	24: 0
	15,89379,90504	21,04634	8,69601	16,70585,2597	20,14503	
41	41326,33678,15046	45383,05816	1 09816,31012	9,61622,69105,7842	9,65689,37577	24:36
	15,89254,01783	21,04968	8,70073	16,69810,6459	20,13888	
42	41342,22932,16829	45404,10784	1 09825,01085	9,61639,38916,4301	9,65709,51465	25:12
	15,89128,08219	21,05301	8,70546	16,69036,6274	20,13274	
43	41358,12060,25048	45425,16085	1 09833,71631	9,61656,07953,0575	9,65729,64739	25:48
	15,89002,09816	21,05636	8,71019	16,68263,2037	20,12659	
44	41374,01062,34864	45446,21721	1 09842,42650	9,61672,76216,2612	9,65749,77398	26:24
	15,88876,06571	21,05969	8,71491	16,67490,3740	20,12047	
45	41389,89938,41435	45467,27690	1 09851,14141	9,61689,43706,6352	9,65769,89445	27: 0
	15,88749,98487	21,06304	8,71964	16,66718,1374	20,11434	
46	41405,78688,39922	45488,33994	1 09859,86105	9,61706,10424,7726	9,65790,00879	27:36
	15,88623,85562	21,06638	8,72438	16,65946,4934	20,10822	
47	41421,67312,25484	45509,40632	1 09868,58543	9,61722,76371,2660	9,65810,11701	28:12
	15,88497,67800	21,06973	8,72910	16,65175,4412	20,10210	
48	41437,55809,93284	45530,47605	1 09877,31453	9,61739,41546,7072	9,65830,21911	28:48
	15,88371,45198	21,07308	8,73385	16,64404,9800	20,09600	
49	41453,44181,38482	45551,54913	1 09886,04838	9,61756,05951,6872	9,65850,31511	29:24
	15,88245,17757	21,07642	8,73857	16,63635,1091	20,08990	
50	41469,32426,56239	45572,62555	1 09894,78695	9,61772,69586,7963	9,65870,40501	30: 0
	15,88118,85479	21,07978	8,74332	16,62865,8278	20,08380	
51	41485,20545,41718	45593,70533	1 09903,53027	9,61789,32452,6241	9,65890,48881	30:36
	15,87992,48362	21,08314	8,74806	16,62097,1354	20,07772	
52	41501,08537,90080	45614,78847	1 09912,27833	9,61805,94549,7595	9,65910,56653	31:12
	15,87866,06409	21,08649	8,75280	16,61329,0311	20,07163	
53	41516,96403,96489	45635,87496	1 09921,03113	9,61822,55878,7906	9,65930,63816	31:48
	15,87739,59619	21,08986	8,75754	16,60561,5144	20,06555	
54	41532,84143,56108	45656,96482	1 09929,78867	9,61839,16440,3050	9,65950,70371	32:24
	15,87613,07991	21,09321	8,76228	16,59794,5842	20,05948	
55	41548,71756,64099	45678,05803	1 09938,55095	9,61855,76234,8892	9,65970,76319	33: 0
	15,87486,51529	21,09658	8,76703	16,59028,2401	20,05342	
56	41564,59243,15628	45699,15461	1 09947,31798	9,61872,35263,1293	9,65990,81661	33:36
	15,87359,90229	21,09994	8,77179	16,58262,4812	20,04736	
57	41580,46603,05857	45720,25455	1 09956,08977	9,61888,93525,6105	9,66010,86397	34:12
	15,87233,24096	21,10331	8,77653	16,57497,3069	20,04131	
58	41596,33836,29953	45741,35786	1 09964,86630	9,61905,51022,9174	9,66030,90528	34:48
	15,87106,53126	21,10669	8,78128	16,56732,7165	20,03526	
59	41612,20942,83079	45762,46455	1 09973,64758	9,61922,07755,6339	9,66050,94054	35:24
	15,86979,77322	21,11005	8,78603	16,55968,7091	20,02922	
60	41628,07922,60401	45783,57460	1 09982,43361	9,61938,63724,3430	9,66070,96976	36: 0
	15,86852,96684	21,11343	8,79079	16,55205,2842	20,02319	
61	41643,94775,57085	45804,68803	1 09991,22440	9,61955,18929,6272	9,66090,99295	36:36
	15,86726,11213	21,11680	8,79555	16,54442,4410	20,01716	
62	41659,81501,68298	45825,80483	1 10000,01995	9,61971,73372,0682	9,66111,01011	37:12
	15,86599,20907	21,12018	8,80030	16,53680,1787	20,01114	
63	41675,68100,89205	45846,92501	1 10008,82025	9,61988,27052,2469	9,66131,02125	37:48
	15,86472,25768	21,12356	8,80506	16,52918,4968	20,00512	
64	41691,54573,14973	45868,04857	1 10017,62531	9,62004,79970,7437	9,66151,02637	38:24
	15,86345,25798	21,12694	8,80983	16,52157,3944	19,99911	
65	41707,40918,40771	45889,17551	1 10026,43514	9,62021,32128,1381	9,66171,02548	39: 0
	15,86218,20994	21,13033	8,81459	16,51396,8709	19,99311	
66	41723,27136,61765	45910,30584	1 10035,24973	9,62037,83525,0090	9,66191,01859	39:36
	15,86091,11359	21,13372	8,81935	16,50636,9255	19,98711	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	91118,76832,97795 7,19199,61531	2 21166,61561 102,78582	2 42723,44729 93,65349	9,95960,78406,6723 3,42801,7711	10,34471,95722 20,18826	40:12
66	91111,57633,36264 7,19477,15704	2 21063,82979 102,70654	2 42629,79380 93,57385	9,95957,35604,9012 3,42961,1357	10,34451,76896 20,18206	39:36
65	91104,38156,20560 7,19754,67686	2 20961,12325 102,62735	2 42536,21995 93,49432	9,95953,92643,7655 3,43120,5255	10,34431,58690 20,17588	39: 0
64	91097,18401,52874 7,20032,17475	2 20858,49590 102,54827	2 42442,72563 93,41489	9,95950,49523,2400 3,43279,9405	10,34411,41102 20,16970	38:24
63	91089,98369,35399 7,20309,65071	2 20755,94763 102,46927	2 42349,31074 93,33556	9,95947,06243,2995 3,43439,3807	10,34391,24132 20,16352	37:48
62	91082,78059,70328 7,20587,10472	2 20653,47836 102,39038	2 42255,97518 93,25631	9,95943,62803,9188 3,43598,8461	10,34371,07780 20,15735	37:12
61	91075,57472,59856 7,20864,53679	2 20551,08798 102,31158	2 42162,71887 93,17717	9,95940,19205,0727 3,43758,3367	10,34350,92045 20,15119	36:36
60	91068,36608,06177 7,21141,94689	2 20448,77640 102,23288	2 42069,54170 93,09813	9,95936,75446,7360 3,43917,8526	10,34330,76926 20,14503	36: 0
59	91061,15466,11488 7,21419,33504	2 20346,54352 102,15428	2 41976,44357 93,01919	9,95933,31528,8834 3,44077,3938	10,34310,62423 20,13888	35:24
58	91053,94046,77984 7,21696,70119	2 20244,38924 102,07577	2 41883,42438 92,94033	9,95929,87451,4896 3,44236,9602	10,34290,48535 20,13274	34:48
57	91046,72350,07865 7,21974,04538	2 20142,31347 101,99737	2 41790,48405 92,86157	9,95926,43214,5294 3,44396,5520	10,34270,35261 20,12659	34:12
56	91039,50376,03327 7,22251,36756	2 20040,31610 101,91905	2 41697,62248 92,78292	9,95922,98817,9774 3,44556,1690	10,34250,22602 20,12047	33:36
55	91032,28124,66571 7,22528,66775	2 19938,39705 101,84083	2 41604,83956 92,70436	9,95919,54261,8084 3,44715,8114	10,34230,10555 20,11434	33: 0
54	91025,05595,99796 7,22805,94592	2 19836,55622 101,76272	2 41512,13520 92,62589	9,95916,09545,9970 3,44875,4792	10,34209,99121 20,10822	32:24
53	91017,82790,05204 7,23083,20208	2 19734,79350 101,68469	2 41419,50931 92,54752	9,95912,64670,5178 3,45035,1722	10,34189,88299 20,10210	31:48
52	91010,59706,84996 7,23360,43622	2 19633,10881 101,60676	2 41326,96179 92,46925	9,95909,19635,3456 3,45194,8907	10,34169,78089 20,09600	31:12
51	91003,36346,41374 7,23637,64831	2 19531,50205 101,52893	2 41234,49254 92,39107	9,95905,74440,4549 3,45354,6345	10,34149,68489 20,08990	30:36
50	90996,12708,76543 7,23914,83836	2 19429,97312 101,45120	2 41142,10147 92,31298	9,95902,29085,8204 3,45514,4038	10,34129,59499 20,08380	30: 0
49	90988,88793,92707 7,24192,00637	2 19328,52192 101,37355	2 41049,78849 92,23500	9,95898,83571,4166 3,45674,1985	10,34109,51119 20,07772	29:24
48	90981,64601,92070 7,24469,15231	2 19227,14837 101,29601	2 40957,55349 92,15711	9,95895,37897,2181 3,45834,0186	10,34089,43347 20,07163	28:48
47	90974,40132,76839 7,24746,27618	2 19125,85236 101,21855	2 40865,39638 92,07931	9,95891,92063,1995 3,45993,8642	10,34069,36184 20,06555	28:12
46	90967,15386,49221 7,25023,37798	2 19024,63381 101,14120	2 40773,31707 92,00160	9,95888,46069,3353 3,46153,7352	10,34049,29629 20,05948	27:36
45	90959,90363,11423 7,25300,45769	2 18923,49261 101,06394	2 40681,31547 91,92400	9,95884,99915,6001 3,46313,6318	10,34029,23681 20,05342	27: 0
44	90952,65062,65654 7,25577,51530	2 18822,42867 100,98677	2 40589,39147 91,84648	9,95881,53601,9683 3,46473,5538	10,34009,18339 20,04736	26:24
43	90945,39485,14124 7,25854,55082	2 18721,44190 100,90970	2 40497,54499 91,76906	9,95878,07128,4145 3,46633,5014	10,33989,13603 20,04131	25:48
42	90938,13630,59042 7,26131,56423	2 18620,53220 100,83272	2 40405,77593 91,69174	9,95874,60494,9131 3,46793,4745	10,33969,09472 20,03526	25:12
41	90930,87499,02619 7,26408,55550	2 18519,69948 100,75584	2 40314,08419 91,61450	9,95871,13701,4386 3,46953,4732	10,33949,05946 20,02922	24:36
40	90923,61090,47069 7,26685,52467	2 18418,94364 100,67904	2 40222,46969 91,53737	9,95867,66747,9654 3,47113,4973	10,33929,03024 20,02319	24: 0
39	90916,34404,94602 7,26962,47169	2 18318,26460 100,60236	2 40130,93232 91,46033	9,95864,19634,4681 3,47273,5472	10,33909,00705 20,01716	23:24
38	90909,07442,47433 7,27239,39656	2 18217,66224 100,52575	2 40039,47199 91,38337	9,95860,72360,9209 3,47433,6225	10,33888,98989 20,01114	22:48
37	90901,80203,07777 7,27516,29928	2 18117,13649 100,44924	2 39948,08862 91,30652	9,95857,24927,2984 3,47593,7235	10,33868,97875 20,00512	22:12
36	90894,52686,77849 7,27793,17985	2 18016,68725 100,37283	2 39856,78210 91,22975	9,95853,77333,5749 3,47753,8502	10,33848,97363 19,99911	21:36
35	90887,24893,59864 7,28070,03824	2 17916,31442 100,29650	2 39765,55235 91,15309	9,95850,29579,7247 3,47914,0025	10,33828,97452 19,99311	21: 0
34	90879,96823,56040 7,28346,87445	2 17816,01792 100,22028	2 39674,39926 91,07650	9,95846,81665,7222 3,48074,1804	10,33808,98141 19,98711	20:24

GRAD. 65.

24. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	41739,13227,73124	45931,43956	1 10044,06908	9,62054,34161,9345	9,66211,00570	40:12
	15,85963,96893	21,13710	8,82412	16,49877,5575	19,98112	
68	41754,99191,70017	45952,57666	1 10052,89320	9,62070,84039,4920	9,66230,98682	40:48
	15,85836,77594	21,14049	8,82889	16,49118,7664	19,97514	
69	41770,85028,47611	45973,71715	1 10061,72209	9,62087,33158,2584	9,66250,96196	41:24
	15,85709,53466	21,14389	8,83366	16,48360,5513	19,96915	
70	41786,70738,01077	45994,86104	1 10070,55575	9,62103,81518,8097	9,66270,93111	42: 0
	15,85582,24507	21,14728	8,83843	16,47602,9114	19,96318	
71	41802,56320,25584	46016,00832	1 10079,39418	9,62120,29121,7211	9,66290,89429	42:36
	15,85454,90718	21,15068	8,84320	16,46845,8464	19,95721	
72	41818,41775,16302	46037,15900	1 10088,23738	9,62136,75967,5675	9,66310,85150	43:12
	15,85327,52099	21,15408	8,84798	16,46089,3551	19,95126	
73	41834,27102,68401	46058,31308	1 10097,08536	9,62153,22056,9226	9,66330,80276	43:48
	15,85200,08652	21,15748	8,85275	16,45333,4371	19,94529	
74	41850,12302,77053	46079,47056	1 10105,93811	9,62169,67390,3597	9,66350,74805	44:24
	15,85072,60375	21,16088	8,85753	16,44578,0917	19,93935	
75	41865,97375,37428	46100,63144	1 10114,79564	9,62186,11968,4514	9,66370,68740	45: 0
	15,84945,07271	21,16429	8,86232	16,43823,3181	19,93340	
76	41881,82320,44699	46121,79573	1 10123,65796	9,62202,55791,7695	9,66390,62080	45:36
	15,84817,49337	21,16770	8,86709	16,43069,1158	19,92747	
77	41897,67137,94036	46142,96343	1 10132,52505	9,62218,98860,8853	9,66410,54827	46:12
	15,84689,86577	21,17110	8,87188	16,42315,4837	19,92153	
78	41913,51827,80613	46164,13453	1 10141,39693	9,62235,41176,3690	9,66430,46980	46:48
	15,84562,18989	21,17452	8,87666	16,41562,4216	19,91561	
79	41929,36389,99602	46185,30905	1 10150,27359	9,62251,82738,7906	9,66450,38541	47:24
	15,84434,46575	21,17793	8,88145	16,40809,9284	19,90968	
80	41945,20824,46177	46206,48698	1 10159,15504	9,62268,23548,7190	9,66470,29509	48: 0
	15,84306,69334	21,18135	8,88624	16,40058,0038	19,90378	
81	41961,05131,15511	46227,66833	1 10168,04128	9,62284,63606,7228	9,66490,19887	48:36
	15,84178,87266	21,18477	8,89103	16,39306,6466	19,89786	
82	41976,89310,02777	46248,85310	1 10176,93231	9,62301,02913,3694	9,66510,09673	49:12
	15,84051,00374	21,18818	8,89582	16,38555,8567	19,89197	
83	41992,73361,03151	46270,04128	1 10185,82813	9,62317,41469,2261	9,66529,98870	49:48
	15,83923,08655	21,19161	8,90061	16,37805,6329	19,88607	
84	42008,57284,11806	46291,23289	1 10194,72874	9,62333,79274,8590	9,66549,87477	50:24
	15,83795,12113	21,19503	8,90541	16,37055,9749	19,88017	
85	42024,41079,23919	46312,42792	1 10203,63415	9,62350,16330,8339	9,66569,75494	51: 0
	15,83667,10745	21,19846	8,91021	16,36306,8817	19,87430	
86	42040,24746,34664	46333,62638	1 10212,54436	9,62366,52637,7156	9,66589,62924	51:36
	15,83539,04553	21,20189	8,91500	16,35558,3529	19,86841	
87	42056,08285,39217	46354,82827	1 10221,45936	9,62382,88196,0685	9,66609,49765	52:12
	15,83410,93538	21,20532	8,91981	16,34810,3876	19,86254	
88	42071,91696,32755	46376,03359	1 10230,37917	9,62399,23006,4561	9,66629,36019	52:48
	15,83282,77699	21,20876	8,92461	16,34062,9852	19,85668	
89	42087,74979,10454	46397,24235	1 10239,30378	9,62415,57069,4413	9,66649,21687	53:24
	15,83154,57037	21,21218	8,92941	16,33316,1450	19,85082	
90	42103,58133,67491	46418,45453	1 10248,23319	9,62431,90385,5863	9,66669,06769	54: 0
	15,83026,31553	21,21563	8,93422	16,32569,8664	19,84496	
91	42119,41159,99044	46439,67016	1 10257,16741	9,62448,22955,4527	9,66688,91265	54:36
	15,82898,01247	21,21906	8,93902	16,31824,1487	19,83911	
92	42135,24058,00291	46460,88922	1 10266,10643	9,62464,54779,6014	9,66708,75176	55:12
	15,82769,66118	21,22251	8,94383	16,31078,9911	19,83327	
93	42151,06827,66409	46482,11173	1 10275,05026	9,62480,85858,5925	9,66728,58503	55:48
	15,82641,26169	21,22595	8,94865	16,30334,3930	19,82743	
94	42166,89468,92578	46503,33768	1 10283,99891	9,62497,16192,9855	9,66748,41246	56:24
	15,82512,81398	21,22939	8,95346	16,29590,3537	19,82160	
95	42182,71981,73976	46524,56707	1 10292,95237	9,62513,45783,3392	9,66768,23406	57: 0
	15,82384,31807	21,23285	8,95827	16,28846,8727	19,81577	
96	42198,54366,05783	46545,79992	1 10301,91064	9,62529,74630,2119	9,66788,04983	57:36
	15,82255,77395	21,23629	8,96308	16,28103,9491	19,80996	
97	42214,36621,83178	46567,03621	1 10310,87372	9,62546,02734,1610	9,66807,85979	58:12
	15,82127,18164	21,23975	8,96791	16,27361,5823	19,80414	
98	42230,18749,01342	46588,27596	1 10319,84163	9,62562,30095,7433	9,66827,66393	58:48
	15,81998,54114	21,24320	8,97272	16,26619,7716	19,79833	
99	42246,00747,55456	46609,51916	1 10328,81435	9,62578,56715,5149	9,66847,46226	59:24
	15,81869,85243	21,24666	8,97755	16,25878,5165	19,79253	
100	42261,82617,40699	46630,76582	1 10337,79190	9,62594,82594,0314	9,66867,25479	60: 0
	15,81741,11556	21,25011	8,98236	16,25137,8161	19,78674	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	90872,68476,68595	2 17715,79764	2 39583,32276	9,95843,33591,5418	10,33788,99430	19:48
	7,28623,68848	100,14414	91,00002	3,48234,3840	19,98112	
32	90865,39852,99747	2 17615,65350	2 39492,32274	9,95839,85357,1578	10,33769,01318	19:12
	7,28900,48031	100,06810	90,92363	3,48394,6134	19,97514	
31	90858,10952,51716	2 17515,58540	2 39401,39911	9,95836,36962,5444	10,33749,03804	18:36
	7,29177,24994	99,99214	90,84733	3,48554,8683	19,96915	
30	90850,81775,26722	2 17415,59326	2 39310,55178	9,95832,88407,6761	10,33729,06889	18: 0
	7,29453,99736	99,91629	90,77113	3,48715,1492	19,96318	
29	90843,52321,26986	2 17315,67697	2 39219,78065	9,95829,39692,5269	10,33709,10571	17:24
	7,29730,72255	99,84053	90,69501	3,48875,4556	19,95721	
28	90836,22590,54731	2 17215,83644	2 39129,08564	9,95825,90817,0713	10,33689,14850	16:48
	7,30007,42552	99,76485	90,61898	3,49035,7879	19,95126	
27	90828,92583,12179	2 17116,07159	2 39038,46666	9,95822,41781,2834	10,33669,19724	16:12
	7,30284,10625	99,68927	90,54306	3,49196,1458	19,94529	
26	90821,62299,01554	2 17016,38232	2 38947,92360	9,95818,92585,1376	10,33649,25195	15:36
	7,30560,76473	99,61378	90,46721	3,49356,5297	19,93935	
25	90814,31738,25081	2 16916,76854	2 38857,45639	9,95815,43228,6079	10,33629,31260	15: 0
	7,30837,40096	99,53839	90,39147	3,49516,9394	19,93340	
24	90807,00900,84985	2 16817,23015	2 38767,06492	9,95811,93711,6685	10,33609,37920	14:24
	7,31114,01493	99,46308	90,31581	3,49677,3747	19,92747	
23	90799,69786,83492	2 16717,76707	2 38676,74911	9,95808,44034,2938	10,33589,45173	13:48
	7,31390,60662	99,38786	90,24025	3,49837,8361	19,92153	
22	90792,38396,22830	2 16618,37921	2 38586,50886	9,95804,94196,4577	10,33569,53020	13:12
	7,31667,17604	99,31275	90,16477	3,49998,3231	19,91561	
21	90785,06729,05226	2 16519,06646	2 38496,34409	9,95801,44198,1346	10,33549,61459	12:36
	7,31943,72317	99,23771	90,08940	3,50158,8362	19,90968	
20	90777,74785,32909	2 16419,82875	2 38406,25469	9,95797,94039,2984	10,33529,70491	12: 0
	7,32220,24801	99,16277	90,01409	3,50319,3750	19,90378	
19	90770,42565,08108	2 16320,66598	2 38316,24060	9,95794,43719,9234	10,33509,80113	11:24
	7,32496,75053	99,08792	89,93890	3,50479,9399	19,89786	
18	90763,10068,33055	2 16221,57806	2 38226,30170	9,95790,93239,9835	10,33489,90327	10:48
	7,32773,23074	99,01316	89,86379	3,50640,5305	19,89197	
17	90755,77295,09981	2 16122,56490	2 38136,43791	9,95787,42599,4530	10,33470,01130	10:12
	7,33049,68864	98,93849	89,78877	3,50801,1472	19,88607	
16	90748,44245,41117	2 16023,62641	2 38046,64914	9,95783,91798,3058	10,33450,12523	9:36
	7,33326,12420	98,86392	89,71384	3,50961,7898	19,88017	
15	90741,10919,28697	2 15924,76249	2 37956,93530	9,95780,40836,5160	10,33430,24506	9: 0
	7,33602,53743	98,78942	89,63900	3,51122,4583	19,87430	
14	90733,77316,74954	2 15825,97307	2 37867,29630	9,95776,89714,0577	10,33410,37076	8:24
	7,33878,92830	98,71503	89,56425	3,51283,1528	19,86841	
13	90726,43437,82124	2 15727,25804	2 37777,73205	9,95773,38430,9049	10,33390,50235	7:48
	7,34155,29683	98,64073	89,48959	3,51443,8734	19,86254	
12	90719,09282,52441	2 15628,61731	2 37688,24246	9,95769,86987,0315	10,33370,63981	7:12
	7,34431,64299	98,56650	89,41502	3,51604,6200	19,85668	
11	90711,74850,88142	2 15530,05081	2 37598,82744	9,95766,35382,4115	10,33350,78313	6:36
	7,34707,96677	98,49238	89,34054	3,51765,3925	19,85082	
10	90704,40142,91465	2 15431,55843	2 37509,48690	9,95762,83617,0190	10,33330,93231	6: 0
	7,34984,26818	98,41834	89,26615	3,51926,1911	19,84496	
9	90697,05158,64647	2 15333,14009	2 37420,22075	9,95759,31690,8279	10,33311,08735	5:24
	7,35260,54720	98,34439	89,19185	3,52087,0158	19,83911	
8	90689,69898,09927	2 15234,79570	2 37331,02890	9,95755,79603,8121	10,33291,24824	4:48
	7,35536,80382	98,27053	89,11763	3,52247,8666	19,83327	
7	90682,34361,29545	2 15136,52517	2 37241,91127	9,95752,27355,9455	10,33271,41497	4:12
	7,35813,03803	98,19676	89,04351	3,52408,7435	19,82743	
6	90674,98548,25742	2 15038,32841	2 37152,86776	9,95748,74947,2020	10,33251,58754	3:36
	7,36089,24983	98,12308	88,96948	3,52569,6464	19,82160	
5	90667,62459,00759	2 14940,20533	2 37063,89828	9,95745,22377,5556	10,33231,76594	3: 0
	7,36365,43921	98,04948	88,89553	3,52730,5755	19,81577	
4	90660,26093,56838	2 14842,15585	2 36975,00275	9,95741,69646,9801	10,33211,95017	2:24
	7,36641,60616	97,97599	88,82167	3,52891,5307	19,80996	
3	90652,89451,96222	2 14744,17986	2 36886,18108	9,95738,16755,4494	10,33192,14021	1:48
	7,36917,75067	97,90257	88,74791	3,53052,5122	19,80414	
2	90645,52534,21155	2 14646,27729	2 36797,43317	9,95734,63702,9372	10,33172,33607	1:12
	7,37193,87272	97,82924	88,67422	3,53213,5197	19,79833	
1	90638,15340,33883	2 14548,44805	2 36708,75895	9,95731,10489,4175	10,33152,53774	0:36
	7,37469,97233	97,75600	88,60063	3,53374,5535	19,79253	
0	90630,77870,36650	2 14450,69205	2 36620,15832	9,95727,57114,8640	10,33132,74521	0: 0
	7,37746,04947	97,68285	88,52713	3,53535,6135	19,78674	

GRAD. 65.

25. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	42261,82617,40699	46630,76582	1 10337,79190	9,62594,82594,0314	9,66867,25479	0: 0
	15,81741,11556	21,25011	8,98236	16,25137,8161	19,78674	
1	42277,64358,52255	46652,01593	1 10346,77426	9,62611,07731,8475	9,66887,04153	0:36
	15,81612,33048	21,25358	8,98720	16,24397,6699	19,78094	
2	42293,45970,85303	46673,26951	1 10355,76146	9,62627,32129,5174	9,66906,82247	1:12
	15,81483,49724	21,25704	8,99201	16,23658,0771	19,77516	
3	42309,27454,35027	46694,52655	1 10364,75347	9,62643,55787,5945	9,66926,59763	1:48
	15,81354,61582	21,26050	8,99685	16,22919,0372	19,76938	
4	42325,08808,96609	46715,78705	1 10373,75032	9,62659,78706,6317	9,66946,36701	2:24
	15,81225,68623	21,26397	9,00168	16,22180,5493	19,76361	
5	42340,90034,65232	46737,05102	1 10382,75200	9,62676,00887,1810	9,66966,13062	3: 0
	15,81096,70847	21,26744	9,00650	16,21442,6130	19,75783	
6	42356,71131,36079	46758,31846	1 10391,75850	9,62692,22329,7940	9,66985,88845	3:36
	15,80967,68255	21,27092	9,01134	16,20705,2274	19,75208	
7	42372,52099,04334	46779,58938	1 10400,76984	9,62708,43035,0214	9,67005,64053	4:12
	15,80838,60848	21,27438	9,01618	16,19968,3921	19,74632	
8	42388,32937,65182	46800,86376	1 10409,78602	9,62724,63003,4135	9,67025,38685	4:48
	15,80709,48623	21,27786	9,02101	16,19232,1062	19,74057	
9	42404,13647,13805	46822,14162	1 10418,80703	9,62740,82235,5197	9,67045,12742	5:24
	15,80580,31585	21,28134	9,02585	16,18496,3691	19,73483	
10	42419,94227,45390	46843,42296	1 10427,83288	9,62757,00731,8888	9,67064,86225	6: 0
	15,80451,09732	21,28482	9,03069	16,17761,1803	19,72909	
11	42435,74678,55122	46864,70778	1 10436,86357	9,62773,18493,0691	9,67084,59134	6:36
	15,80321,83064	21,28831	9,03553	16,17026,5388	19,72336	
12	42451,55000,38186	46885,99609	1 10445,89910	9,62789,35519,6079	9,67104,31470	7:12
	15,80192,51582	21,29178	9,04038	16,16292,4444	19,71762	
13	42467,35192,89768	46907,28787	1 10454,93948	9,62805,51812,0523	9,67124,03232	7:48
	15,80063,15288	21,29527	9,04522	16,15558,8961	19,71191	
14	42483,15256,05056	46928,58314	1 10463,98470	9,62821,67370,9484	9,67143,74423	8:24
	15,79933,74179	21,29877	9,05007	16,14825,8933	19,70619	
15	42498,95189,79235	46949,88191	1 10473,03477	9,62837,82196,8417	9,67163,45042	9: 0
	15,79804,28257	21,30225	9,05492	16,14093,4354	19,70048	
16	42514,74994,07492	46971,18416	1 10482,08969	9,62853,96290,2771	9,67183,15090	9:36
	15,79674,77525	21,30574	9,05976	16,13361,5219	19,69478	
17	42530,54668,85017	46992,48990	1 10491,14945	9,62870,09651,7990	9,67202,84568	10:12
	15,79545,21979	21,30925	9,06462	16,12630,1518	19,68908	
18	42546,34214,06996	47013,79915	1 10500,21407	9,62886,22281,9508	9,67222,53476	10:48
	15,79415,61622	21,31273	9,06948	16,11899,3248	19,68338	
19	42562,13629,68618	47035,11188	1 10509,28355	9,62902,34181,2756	9,67242,21814	11:24
	15,79285,96455	21,31624	9,07433	16,11169,0400	19,67770	
20	42577,92915,65073	47056,42812	1 10518,35788	9,62918,45350,3156	9,67261,89584	12: 0
	15,79156,26475	21,31974	9,07918	16,10439,2969	19,67202	
21	42593,72071,91548	47077,74786	1 10527,43706	9,62934,55789,6125	9,67281,56786	12:36
	15,79026,51686	21,32324	9,08405	16,09710,0948	19,66634	
22	42609,51098,43234	47099,07110	1 10536,52111	9,62950,65499,7073	9,67301,23420	13:12
	15,78896,72087	21,32675	9,08891	16,08981,4330	19,66067	
23	42625,29995,15321	47120,39785	1 10545,61002	9,62966,74481,1403	9,67320,89487	13:48
	15,78766,87678	21,33026	9,09377	16,08253,3110	19,65500	
24	42641,08762,02999	47141,72811	1 10554,70379	9,62982,82734,4513	9,67340,54987	14:24
	15,78636,98459	21,33377	9,09863	16,07525,7279	19,64935	
25	42656,87399,01458	47163,06188	1 10563,80242	9,62998,90260,1792	9,67360,19922	15: 0
	15,78507,04433	21,33728	9,10350	16,06798,6835	19,64369	
26	42672,65906,05891	47184,39916	1 10572,90592	9,63014,97058,8627	9,67379,84291	15:36
	15,78377,05598	21,34079	9,10837	16,06072,1766	19,63805	
27	42688,44283,11489	47205,73995	1 10582,01429	9,63031,03131,0393	9,67399,48096	16:12
	15,78247,01954	21,34431	9,11324	16,05346,2071	19,63240	
28	42704,22530,13443	47227,08426	1 10591,12753	9,63047,08477,2464	9,67419,11336	16:48
	15,78116,93504	21,34783	9,11811	16,04620,7739	19,62677	
29	42720,00647,06947	47248,43209	1 10600,24564	9,63063,13098,0203	9,67438,74013	17:24
	15,77986,80245	21,35135	9,12298	16,03895,8766	19,62114	
30	42735,78633,87192	47269,78344	1 10609,36862	9,63079,16993,8969	9,67458,36127	18: 0
	15,77856,62181	21,35488	9,12786	16,03171,5146	19,61551	
31	42751,56490,49373	47291,13832	1 10618,49648	9,63095,20165,4115	9,67477,97678	18:36
	15,77726,39309	21,35840	9,13274	16,02447,6872	19,60989	
32	42767,34216,88682	47312,49672	1 10627,62922	9,63111,22613,0987	9,67497,58667	19:12
	15,77596,11632	21,36193	9,13761	16,01724,3937	19,60428	
33	42783,11813,00314	47333,85865	1 10636,76683	9,63127,24337,4924	9,67517,19095	19:48
	15,77465,79148	21,36546	9,14249	16,01001,6335	19,59867	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	90630,77870,36650 7,37746,04947	2 14450,69205 97,68285	2 36620,15832 88,52713	9,95727,57114,8640 3,53535,6135	10,33132,74521 19,78674	60: 0
99	90623,40124,31703 7,38022,10413	2 14353,00920 97,60979	2 36531,63119 88,45371	9,95724,03579,2505 3,53696,6997	10,33112,95847 19,78094	59:24
98	90616,02102,21290 7,38298,13632	2 14255,39941 97,53682	2 36443,17748 88,38038	9,95720,49882,5508 3,53857,8121	10,33093,17753 19,77516	58:48
97	90608,63804,07658 7,38574,14601	2 14157,86259 97,46393	2 36354,79710 88,30714	9,95716,96024,7387 3,54018,9508	10,33073,40237 19,76938	58:12
96	90601,25229,93057 7,38850,13321	2 14060,39866 97,39113	2 36266,48996 88,23399	9,95713,42005,7879 3,54180,1157	10,33053,63299 19,76361	57:36
95	90593,86379,79736 7,39126,09790	2 13963,00753 97,31842	2 36178,25597 88,16092	9,95709,87825,6722 3,54341,3071	10,33033,86938 19,75783	57: 0
94	90586,47253,69946 7,39402,04007	2 13865,68911 97,24579	2 36090,09505 88,08794	9,95706,33484,3651 3,54502,5246	10,33014,11155 19,75208	56:24
93	90579,07851,65939 7,39677,95973	2 13768,44332 97,17326	2 36002,00711 88,01505	9,95702,78981,8405 3,54663,7684	10,32994,35947 19,74632	55:48
92	90571,68173,69966 7,39953,85684	2 13671,27006 97,10081	2 35913,99206 87,94224	9,95699,24318,0721 3,54825,0387	10,32974,61315 19,74057	55:12
91	90564,28219,84282 7,40229,73142	2 13574,16925 97,02844	2 35826,04982 87,86953	9,95695,69493,0334 3,54986,3353	10,32954,87258 19,73483	54:36
90	90556,87990,11140 7,40505,58346	2 13477,14081 96,95617	2 35738,18029 87,79689	9,95692,14506,6981 3,55147,6583	10,32935,13775 19,72909	54: 0
89	90549,47484,52794 7,40781,41292	2 13380,18464 96,88398	2 35650,38340 87,72434	9,95688,59359,0398 3,55309,0075	10,32915,40866 19,72336	53:24
88	90542,06703,11502 7,41057,21984	2 13283,30066 96,81187	2 35562,65906 87,65189	9,95685,04050,0323 3,55470,3833	10,32895,68530 19,71762	52:48
87	90534,65645,89518 7,41333,00416	2 13186,48879 96,73986	2 35475,00717 87,57951	9,95681,48579,6490 3,55631,7855	10,32875,96768 19,71191	52:12
86	90527,24312,89102 7,41608,76592	2 13089,74893 96,66793	2 35387,42766 87,50723	9,95677,92947,8635 3,55793,2140	10,32856,25577 19,70619	51:36
85	90519,82704,12510 7,41884,50508	2 12993,08100 96,59608	2 35299,92043 87,43502	9,95674,37154,6495 3,55954,6691	10,32836,54958 19,70048	51: 0
84	90512,40819,62002 7,42160,22165	2 12896,48492 96,52432	2 35212,48541 87,36291	9,95670,81199,9804 3,56116,1506	10,32816,84910 19,69478	50:24
83	90504,98659,39837 7,42435,91559	2 12799,96060 96,45266	2 35125,12250 87,29088	9,95667,25083,8298 3,56277,6586	10,32797,15432 19,68908	49:48
82	90497,56223,48278 7,42711,58694	2 12703,50794 96,38106	2 35037,83162 87,21894	9,95663,68806,1712 3,56439,1931	10,32777,46524 19,68338	49:12
81	90490,13511,89584 7,42987,23564	2 12607,12688 96,30956	2 34950,61268 87,14707	9,95660,12366,9781 3,56600,7541	10,32757,78186 19,67770	48:36
80	90482,70524,66020 7,43262,86173	2 12510,81732 96,23815	2 34863,46561 87,07531	9,95656,55766,2240 3,56762,3417	10,32738,10416 19,67202	48: 0
79	90475,27261,79847 7,43538,46517	2 12414,57917 96,16682	2 34776,39030 87,00361	9,95652,99003,8823 3,56923,9558	10,32718,43214 19,66634	47:24
78	90467,83723,33330 7,43814,04597	2 12318,41235 96,09557	2 34689,38669 86,93201	9,95649,42079,9265 3,57085,5964	10,32698,76580 19,66067	46:48
77	90460,39909,28733 7,44089,60409	2 12222,31678 96,02441	2 34602,45468 86,86049	9,95645,84994,3301 3,57247,2637	10,32679,10513 19,65500	46:12
76	90452,95819,68324 7,44365,13956	2 12126,29237 95,95333	2 34515,59419 86,78906	9,95642,27747,0664 3,57408,9575	10,32659,45013 19,64935	45:36
75	90445,51454,54368 7,44640,65235	2 12030,33904 95,88234	2 34428,80513 86,71771	9,95638,70338,1089 3,57570,6781	10,32639,80078 19,64369	45: 0
74	90438,06813,89133 7,44916,14246	2 11934,45670 95,81144	2 34342,08742 86,64644	9,95635,12767,4308 3,57732,4251	10,32620,15709 19,63805	44:24
73	90430,61897,74887 7,45191,60988	2 11838,64526 95,74061	2 34255,44098 86,57527	9,95631,55035,0057 3,57894,1988	10,32600,51904 19,63240	43:48
72	90423,16706,13899 7,45467,05460	2 11742,90465 95,66988	2 34168,86571 86,50416	9,95627,97140,8069 3,58055,9993	10,32580,88664 19,62677	43:12
71	90415,71239,08439 7,45742,47661	2 11647,23477 95,59922	2 34082,36155 86,43316	9,95624,39084,8076 3,58217,8263	10,32561,25987 19,62114	42:36
70	90408,25496,60778 7,46017,87590	2 11551,63555 95,52865	2 33995,92839 86,36222	9,95620,80866,9813 3,58379,6802	10,32541,63873 19,61551	42: 0
69	90400,79478,73188 7,46293,25246	2 11456,10690 95,45817	2 33909,56617 86,29138	9,95617,22487,3011 3,58541,5606	10,32522,02322 19,60989	41:24
68	90393,33185,47942 7,46568,60630	2 11360,64873 95,38776	2 33823,27479 86,22062	9,95613,63945,7405 3,58703,4679	10,32502,41333 19,60428	40:48
67	90385,86616,87312 7,46843,93740	2 11265,26097 95,31745	2 33737,05417 86,14994	9,95610,05242,2726 3,58865,4019	10,32482,80905 19,59867	40:12

25. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	42783,11813,00314 15,77465,79148	47333,85865 21,36546	1 10636,76683 9,14249	9,63127,24337,4924 16,01001,6335	9,67517,19095 19,59867	19:48
34	42798,89278,79462 15,77335,41861	47355,22411 21,36899	1 10645,90932 9,14738	9,63143,25339,1259 16,00279,4060	9,67536,78962 19,59307	20:24
35	42814,66614,21323 15,77204,99767	47376,59310 21,37252	1 10655,05670 9,15226	9,63159,25618,5319 15,99557,7106	9,67556,38269 19,58747	21: 0
36	42830,43819,21090 15,77074,52870	47397,96562 21,37606	1 10664,20896 9,15715	9,63175,25176,2425 15,98836,5466	9,67575,97016 19,58188	21:36
37	42846,20893,73960 15,76944,01168	47419,34168 21,37960	1 10673,36611 9,16203	9,63191,24012,7891 15,98115,9133	9,67595,55204 19,57629	22:12
38	42861,97837,75128 15,76813,44663	47440,72128 21,38314	1 10682,52814 9,16692	9,63207,22128,7024 15,97395,8104	9,67615,12833 19,57072	22:48
39	42877,74651,19791 15,76682,83355	47462,10442 21,38668	1 10691,69506 9,17182	9,63223,19524,5128 15,96676,2368	9,67634,69905 19,56513	23:24
40	42893,51334,03146 15,76552,17243	47483,49110 21,39023	1 10700,86688 9,17670	9,63239,16200,7496 15,95957,1922	9,67654,26418 19,55957	24: 0
41	42909,27886,20389 15,76421,46330	47504,88133 21,39377	1 10710,04358 9,18160	9,63255,12157,9418 15,95238,6758	9,67673,82375 19,55401	24:36
42	42925,04307,66719 15,76290,70613	47526,27510 21,39733	1 10719,22518 9,18650	9,63271,07396,6176 15,94520,6872	9,67693,37776 19,54845	25:12
43	42940,80598,37332 15,76159,90096	47547,67243 21,40088	1 10728,41168 9,19140	9,63287,01917,3048 15,93803,2255	9,67712,92621 19,54289	25:48
44	42956,56758,27428 15,76029,04778	47569,07331 21,40443	1 10737,60308 9,19629	9,63302,95720,5303 15,93086,2902	9,67732,46910 19,53735	26:24
45	42972,32787,32206 15,75898,14657	47590,47774 21,40798	1 10746,79937 9,20120	9,63318,88806,8205 15,92369,8808	9,67752,00645 19,53180	27: 0
46	42988,08685,46863 15,75767,19738	47611,88572 21,41155	1 10756,00057 9,20610	9,63334,81176,7013 15,91653,9965	9,67771,53825 19,52627	27:36
47	43003,84452,66601 15,75636,20018	47633,29727 21,41510	1 10765,20667 9,21100	9,63350,72830,6978 15,90938,6368	9,67791,06452 19,52074	28:12
48	43019,60088,86619 15,75505,15497	47654,71237 21,41867	1 10774,41767 9,21592	9,63366,63769,3346 15,90223,8008	9,67810,58526 19,51522	28:48
49	43035,35594,02116 15,75374,06179	47676,13104 21,42223	1 10783,63359 9,22082	9,63382,53993,1354 15,89509,4884	9,67830,10048 19,50969	29:24
50	43051,10968,08295 15,75242,92061	47697,55327 21,42580	1 10792,85441 9,22573	9,63398,43502,6238 15,88795,6984	9,67849,61017 19,50418	30: 0
51	43066,86211,00356 15,75111,73144	47718,97907 21,42937	1 10802,08014 9,23064	9,63414,32298,3222 15,88082,4307	9,67869,11435 19,49867	30:36
52	43082,61322,73500 15,74980,49430	47740,40844 21,43294	1 10811,31078 9,23556	9,63430,20380,7529 15,87369,6843	9,67888,61302 19,49317	31:12
53	43098,36303,22930 15,74849,20918	47761,84138 21,43651	1 10820,54634 9,24048	9,63446,07750,4372 15,86657,4588	9,67908,10619 19,48768	31:48
54	43114,11152,43848 15,74717,87609	47783,27789 21,44009	1 10829,78682 9,24539	9,63461,94407,8960 15,85945,7535	9,67927,59387 19,48218	32:24
55	43129,85870,31457 15,74586,49502	47804,71798 21,44367	1 10839,03221 9,25031	9,63477,80353,6495 15,85234,5678	9,67947,07605 19,47669	33: 0
56	43145,60456,80959 15,74455,06600	47826,16165 21,44724	1 10848,28252 9,25523	9,63493,65588,2173 15,84523,9011	9,67966,55274 19,47121	33:36
57	43161,34911,87559 15,74323,58900	47847,60889 21,45083	1 10857,53775 9,26016	9,63509,50112,1184 15,83813,7529	9,67986,02395 19,46574	34:12
58	43177,09235,46459 15,74192,06407	47869,05972 21,45442	1 10866,79791 9,26508	9,63525,33925,8713 15,83104,1222	9,68005,48969 19,46026	34:48
59	43192,83427,52866 15,74060,49116	47890,51414 21,45800	1 10876,06299 9,27001	9,63541,17029,9935 15,82395,0090	9,68024,94995 19,45480	35:24
60	43208,57488,01982 15,73928,87032	47911,97214 21,46159	1 10885,33300 9,27494	9,63556,99425,0025 15,81686,4121	9,68044,40475 19,44935	36: 0
61	43224,31416,89014 15,73797,20153	47933,43373 21,46518	1 10894,60794 9,27986	9,63572,81111,4146 15,80978,3312	9,68063,85410 19,44388	36:36
62	43240,05214,09167 15,73665,48480	47954,89891 21,46878	1 10903,88780 9,28480	9,63588,62089,7458 15,80270,7658	9,68083,29798 19,43844	37:12
63	43255,78879,57647 15,73533,72014	47976,36769 21,47237	1 10913,17260 9,28973	9,63604,42360,5116 15,79563,7149	9,68102,73642 19,43300	37:48
64	43271,52413,29661 15,73401,90753	47997,84006 21,47597	1 10922,46233 9,29467	9,63620,21924,2265 15,78857,1783	9,68122,16942 19,42756	38:24
65	43287,25815,20414 15,73270,04700	48019,31603 21,47956	1 10931,75700 9,29961	9,63636,00781,4048 15,78151,1552	9,68141,59698 19,42213	39: 0
66	43302,99085,25114 15,73138,13855	48040,79559 21,48318	1 10941,05661 9,30454	9,63651,78932,5600 15,77445,6450	9,68161,01911 19,41670	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	90385,86616,87312 7,46843,93740	2 11265,26097 95,31745	2 33737,05417 86,14994	9,95610,05242,2726 3,58865,4019	10,32482,80905 19,59867	40:12
66	90378,39772,93572 7,47119,24573	2 11169,94352 95,24721	2 33650,90423 86,07934	9,95606,46376,8707 3,59027,3626	10,32463,21038 19,59307	39:36
65	90370,92653,68999 7,47394,53132	2 11074,69631 95,17706	2 33564,82489 86,00884	9,95602,87349,5081 3,59189,3501	10,32443,61731 19,58747	39: 0
64	90363,45259,15867 7,47669,79414	2 10979,51925 95,10699	2 33478,81605 85,93841	9,95599,28160,1580 3,59351,3645	10,32424,02984 19,58188	38:24
63	90355,97589,36453 7,47945,03418	2 10884,41226 95,03701	2 33392,87764 85,86806	9,95595,68808,7935 3,59513,4056	10,32404,44796 19,57629	37:48
62	90348,49644,33035 7,48220,25144	2 10789,37525 94,96710	2 33307,00958 85,79780	9,95592,09295,3879 3,59675,4736	10,32384,87167 19,57072	37:12
61	90341,01424,07891 7,48495,44590	2 10694,40815 94,89729	2 33221,21178 85,72762	9,95588,49619,9143 3,59837,5684	10,32365,30095 19,56513	36:36
60	90333,52928,63301 7,48770,61757	2 10599,51086 94,82755	2 33135,48416 85,65752	9,95584,89782,3459 3,59999,6901	10,32345,73582 19,55957	36: 0
59	90326,04158,01544 7,49045,76643	2 10504,68331 94,75789	2 33049,82664 85,58751	9,95581,29782,6558 3,60161,8386	10,32326,17625 19,55401	35:24
58	90318,55112,24901 7,49320,89246	2 10409,92542 94,68833	2 32964,23913 85,51758	9,95577,69620,8172 3,60324,0141	10,32306,62224 19,54845	34:48
57	90311,05791,35655 7,49595,99568	2 10315,23709 94,61883	2 32878,72155 85,44772	9,95574,09296,8031 3,60486,2165	10,32287,07379 19,54289	34:12
56	90303,56195,36087 7,49871,07606	2 10220,61826 94,54943	2 32793,27383 85,37796	9,95570,48810,5866 3,60648,4457	10,32267,53090 19,53735	33:36
55	90296,06324,28481 7,50146,13359	2 10126,06883 94,48011	2 32707,89587 85,30827	9,95566,88162,1409 3,60810,7020	10,32247,99355 19,53180	33: 0
54	90288,56178,15122 7,50421,16828	2 10031,58872 94,41086	2 32622,58760 85,23867	9,95563,27351,4389 3,60972,9852	10,32228,46175 19,52627	32:24
53	90281,05756,98294 7,50696,18011	2 09937,17786 94,34170	2 32537,34893 85,16915	9,95559,66378,4537 3,61135,2954	10,32208,93548 19,52074	31:48
52	90273,55060,80283 7,50971,16907	2 09842,83616 94,27263	2 32452,17978 85,09970	9,95556,05243,1583 3,61297,6326	10,32189,41474 19,51522	31:12
51	90266,04089,63376 7,51246,13515	2 09748,56353 94,20362	2 32367,08008 85,03035	9,95552,43945,5257 3,61459,9968	10,32169,89952 19,50969	30:36
50	90258,52843,49861 7,51521,07836	2 09654,35991 94,13471	2 32282,04973 84,96106	9,95548,82485,5289 3,61622,3880	10,32150,38983 19,50418	30: 0
49	90251,01322,42025 7,51795,99866	2 09560,22520 94,06587	2 32197,08867 84,89187	9,95545,20863,1409 3,61784,8062	10,32130,88565 19,49867	29:24
48	90243,49526,42159 7,52070,89606	2 09466,15933 93,99713	2 32112,19680 84,82276	9,95541,59078,3347 3,61947,2516	10,32111,38698 19,49317	28:48
47	90235,97455,52553 7,52345,77057	2 09372,16220 93,92844	2 32027,37404 84,75371	9,95537,97131,0831 3,62109,7240	10,32091,89381 19,48768	28:12
46	90228,45109,75496 7,52620,62214	2 09278,23376 93,85986	2 31942,62033 84,68477	9,95534,35021,3591 3,62272,2235	10,32072,40613 19,48218	27:36
45	90220,92489,13282 7,52895,45079	2 09184,37390 93,79135	2 31857,93556 84,61589	9,95530,72749,1356 3,62434,7502	10,32052,92395 19,47669	27: 0
44	90213,39593,68203 7,53170,25651	2 09090,58255 93,72292	2 31773,31967 84,54710	9,95527,10314,3854 3,62597,3038	10,32033,44726 19,47121	26:24
43	90205,86423,42552 7,53445,03929	2 08996,85963 93,65456	2 31688,77257 84,47838	9,95523,47717,0816 3,62759,8848	10,32013,97605 19,46574	25:48
42	90198,32978,38623 7,53719,79912	2 08903,20507 93,58630	2 31604,29419 84,40975	9,95519,84957,1968 3,62922,4928	10,31994,51031 19,46026	25:12
41	90190,79258,58711 7,53994,53597	2 08809,61877 93,51811	2 31519,88444 84,34120	9,95516,22034,7040 3,63085,1281	10,31975,05005 19,45480	24:36
40	90183,25264,05114 7,54269,24988	2 08716,10066 93,45000	2 31435,54324 84,27273	9,95512,58949,5759 3,63247,7905	10,31955,59525 19,44935	24: 0
39	90175,70994,80126 7,54543,94079	2 08622,65066 93,38197	2 31351,27051 84,20433	9,95508,95701,7854 3,63410,4801	10,31936,14590 19,44388	23:24
38	90168,16450,86047 7,54818,60873	2 08529,26869 93,31403	2 31267,06618 84,13602	9,95505,32291,3053 3,63573,1970	10,31916,70202 19,43844	22:48
37	90160,61632,25174 7,55093,25367	2 08435,95466 93,24616	2 31182,93016 84,06779	9,95501,68718,1083 3,63735,9412	10,31897,26358 19,43300	22:12
36	90153,06538,99807 7,55367,87561	2 08342,70850 93,17836	2 31098,86237 83,99964	9,95498,04982,1671 3,63898,7125	10,31877,83058 19,42756	21:36
35	90145,51171,12246 7,55642,47455	2 08249,53014 93,11066	2 31014,86273 83,93156	9,95494,41083,4546 3,64061,5112	10,31858,40302 19,42213	21: 0
34	90137,95528,64791 7,55917,05045	2 08156,41948 93,04303	2 30930,93117 83,86357	9,95490,77021,9434 3,64224,3371	10,31838,98089 19,41670	20:24

GRAD. 64.

25. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	43318,72223,38969	48062,27877	1 10950,36115	9,63667,56378,2050	9,68180,43581	40:12
	15,73006,18218	21,48677	9,30949	15,76740,6472	19,41127	
68	43334,45229,57187	48083,76554	1 10959,67064	9,63683,33118,8522	9,68199,84708	40:48
	15,72874,17789	21,49038	9,31443	15,76036,1610	19,40587	
69	43350,18103,74976	48105,25592	1 10968,98507	9,63699,09155,0132	9,68219,25295	41:24
	15,72742,12568	21,49399	9,31937	15,75332,1860	19,40045	
70	43365,90845,87544	48126,74991	1 10978,30444	9,63714,84487,1992	9,68238,65340	42: 0
	15,72610,02558	21,49761	9,32433	15,74628,7215	19,39504	
71	43381,63455,90102	48148,24752	1 10987,62877	9,63730,59115,9207	9,68258,04844	42:36
	15,72477,87755	21,50121	9,32926	15,73925,7669	19,38965	
72	43397,35933,77857	48169,74873	1 10996,95803	9,63746,33041,6876	9,68277,43809	43:12
	15,72345,68165	21,50483	9,33422	15,73223,3217	19,38425	
73	43413,08279,46022	48191,25356	1 11006,29225	9,63762,06265,0093	9,68296,82234	43:48
	15,72213,43783	21,50845	9,33918	15,72521,3852	19,37887	
74	43428,80492,89805	48212,76201	1 11015,63143	9,63777,78786,3945	9,68316,20121	44:24
	15,72081,14612	21,51207	9,34412	15,71819,9568	19,37347	
75	43444,52574,04417	48234,27408	1 11024,97555	9,63793,50606,3513	9,68335,57468	45: 0
	15,71948,80653	21,51569	9,34908	15,71119,0361	19,36810	
76	43460,24522,85070	48255,78977	1 11034,32463	9,63809,21725,3874	9,68354,94278	45:36
	15,71816,41906	21,51932	9,35404	15,70418,6222	19,36273	
77	43475,96339,26976	48277,30909	1 11043,67867	9,63824,92144,0096	9,68374,30551	46:12
	15,71683,98369	21,52294	9,35900	15,69718,7146	19,35736	
78	43491,68023,25345	48298,83203	1 11053,03767	9,63840,61862,7242	9,68393,66287	46:48
	15,71551,50047	21,52657	9,36396	15,69019,3130	19,35200	
79	43507,39574,75392	48320,35860	1 11062,40163	9,63856,30882,0372	9,68413,01487	47:24
	15,71418,96936	21,53021	9,36892	15,68320,4163	19,34664	
80	43523,10993,72328	48341,88881	1 11071,77055	9,63871,99202,4535	9,68432,36151	48: 0
	15,71286,39038	21,53383	9,37389	15,67622,0244	19,34129	
81	43538,82280,11366	48363,42264	1 11081,14444	9,63887,66824,4779	9,68451,70280	48:36
	15,71153,76354	21,53747	9,37885	15,66924,1365	19,33594	
82	43554,53433,87720	48384,96011	1 11090,52329	9,63903,33748,6144	9,68471,03874	49:12
	15,71021,08885	21,54111	9,38382	15,66226,7519	19,33060	
83	43570,24454,96605	48406,50122	1 11099,90711	9,63918,99975,3663	9,68490,36934	49:48
	15,70888,36629	21,54475	9,38880	15,65529,8701	19,32526	
84	43585,95343,33234	48428,04597	1 11109,29591	9,63934,65505,2364	9,68509,69460	50:24
	15,70755,59589	21,54840	9,39376	15,64833,4907	19,31994	
85	43601,66098,92823	48449,59437	1 11118,68967	9,63950,30338,7271	9,68529,01454	51: 0
	15,70622,77763	21,55203	9,39874	15,64137,6128	19,31460	
86	43617,36721,70586	48471,14640	1 11128,08841	9,63965,94476,3399	9,68548,32914	51:36
	15,70489,91153	21,55569	9,40371	15,63442,2360	19,30929	
87	43633,07211,61739	48492,70209	1 11137,49212	9,63981,57918,5759	9,68567,63843	52:12
	15,70356,99760	21,55933	9,40870	15,62747,3598	19,30398	
88	43648,77568,61499	48514,26142	1 11146,90082	9,63997,20665,9357	9,68586,94241	52:48
	15,70224,03582	21,56298	9,41367	15,62052,9833	19,29866	
89	43664,47792,65081	48535,82440	1 11156,31449	9,64012,82718,9190	9,68606,24107	53:24
	15,70091,02621	21,56664	9,41865	15,61359,1063	19,29336	
90	43680,17883,67702	48557,39104	1 11165,73314	9,64028,44078,0253	9,68625,53443	54: 0
	15,69957,96878	21,57029	9,42364	15,60665,7280	19,28806	
91	43695,87841,64580	48578,96133	1 11175,15678	9,64044,04743,7533	9,68644,82249	54:36
	15,69824,86353	21,57396	9,42862	15,59972,8478	19,28277	
92	43711,57666,50933	48600,53529	1 11184,58540	9,64059,64716,6011	9,68664,10526	55:12
	15,69691,71045	21,57761	9,43361	15,59280,4652	19,27748	
93	43727,27358,21978	48622,11290	1 11194,01901	9,64075,23997,0663	9,68683,38274	55:48
	15,69558,50955	21,58127	9,43859	15,58588,5796	19,27220	
94	43742,96916,72933	48643,69417	1 11203,45760	9,64090,82585,6459	9,68702,65494	56:24
	15,69425,26086	21,58494	9,44359	15,57897,1905	19,26691	
95	43758,66341,99019	48665,27911	1 11212,90119	9,64106,40482,8364	9,68721,92185	57: 0
	15,69291,96434	21,58861	9,44858	15,57206,2972	19,26165	
96	43774,35633,95453	48686,86772	1 11222,34977	9,64121,97689,1336	9,68741,18350	57:36
	15,69158,62002	21,59227	9,45357	15,56515,8992	19,25638	
97	43790,04792,57455	48708,45999	1 11231,80334	9,64137,54205,0328	9,68760,43988	58:12
	15,69025,22792	21,59595	9,45857	15,55825,9958	19,25111	
98	43805,73817,80247	48730,05594	1 11241,26191	9,64153,10031,0286	9,68779,69099	58:48
	15,68891,78800	21,59962	9,46357	15,55136,5867	19,24586	
99	43821,42709,59047	48751,65556	1 11250,72548	9,64168,65167,6153	9,68798,93685	59:24
	15,68758,30030	21,60330	9,46857	15,54447,6710	19,24061	
100	43837,11467,89077	48773,25886	1 11260,19405	9,64184,19615,2863	9,68818,17746	60: 0
	15,68624,76482	21,60697	9,47357	15,53759,2484	19,23536	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	90130,39611,59746 7,56191,60335	2 08063,37645 92,97547	2 30847,06760 83,79565	9,95487,12797,6063 3,64387,1904	10,31819,56419 19,41127	19:48
32	90122,83419,99411 7,56466,13319	2 07970,40098 92,90801	2 30763,27195 83,72781	9,95483,48410,4159 3,64550,0710	10,31800,15292 19,40587	19:12
31	90115,26953,86092 7,56740,64000	2 07877,49297 92,84061	2 30679,54414 83,66006	9,95479,83860,3449 3,64712,9790	10,31780,74705 19,40045	18:36
30	90107,70213,22092 7,57015,12376	2 07784,65236 92,77330	2 30595,88408 83,59238	9,95476,19147,3659 3,64875,9143	10,31761,34660 19,39504	18: 0
29	90100,13198,09716 7,57289,58446	2 07691,87906 92,70607	2 30512,29170 83,52478	9,95472,54271,4516 3,65038,8769	10,31741,95156 19,38965	17:24
28	90092,55908,51270 7,57564,02208	2 07599,17299 92,63891	2 30428,76692 83,45725	9,95468,89232,5747 3,65201,8671	10,31722,56191 19,38425	16:48
27	90084,98344,49062 7,57838,43664	2 07506,53408 92,57183	2 30345,30967 83,38981	9,95465,24030,7076 3,65364,8846	10,31703,17766 19,37887	16:12
26	90077,40506,05398 7,58112,82810	2 07413,96225 92,50483	2 30261,91986 83,32245	9,95461,58665,8230 3,65527,9295	10,31683,79879 19,37347	15:36
25	90069,82393,22588 7,58387,19648	2 07321,45742 92,43792	2 30178,59741 83,25516	9,95457,93137,8935 3,65691,0019	10,31664,42532 19,36810	15: 0
24	90062,24006,02940 7,58661,54174	2 07229,01950 92,37107	2 30095,34225 83,18796	9,95454,27446,8916 3,65854,1017	10,31645,05722 19,36273	14:24
23	90054,65344,48766 7,58935,86391	2 07136,64843 92,30431	2 30012,15429 83,12082	9,95450,61592,7899 3,66017,2291	10,31625,69449 19,35736	13:48
22	90047,06408,62375 7,59210,16295	2 07044,34412 92,23762	2 29929,03347 83,05377	9,9544̄6,95575,5608 3,66180,3839	10,31606,33713 19,35200	13:12
21	90039,47198,46080 7,59484,43886	2 06952,10650 92,17101	2 29845,97970 82,98679	9,95443,29395,1769 3,66343,5662	10,31586,98513 19,34664	12:36
20	90031,87714,02194 7,59758,69165	2 06859,93549 92,10448	2 29762,99291 82,91989	9,95439,63051,6107 3,66506,7761	10,31567,63849 19,34129	12: 0
19	90024,27955,33029 7,60032,92128	2 06767,83101 92,03803	2 29680,07302 82,85308	9,95435,96544,8346 3,66670,0136	10,31548,29720 19,33594	11:24
18	90016,67922,40901 7,60307,12777	2 06675,79298 91,97165	2 29597,21994 82,78633	9,95432,29874,8210 3,66833,2785	10,31528,96126 19,33060	10:48
17	90009,07615,28124 7,60581,31109	2 06583,82133 91,90536	2 29514,43361 82,71967	9,95428,63041,5425 3,66996,5712	10,31509,63066 19,32526	10:12
16	90001,47033,97015 7,60855,47125	2 06491,91597 91,83913	2 29431,71394 82,65308	9,95424,96044,9713 3,67159,8913	10,31490,30540 19,31994	9:36
15	89993,86178,49890 7,61129,60823	2 06400,07684 91,77299	2 29349,06086 82,58656	9,95421,28885,0800 3,67323,2391	10,31470,98546 19,31460	9: 0
14	89986,25048,89067 7,61403,72202	2 06308,30385 91,70693	2 29266,47430 82,52013	9,95417,61561,8409 3,67486,6145	10,31451,67086 19,30929	8:24
13	89978,63645,16865 7,61677,81262	2 06216,59692 91,64093	2 29183,95417 82,45378	9,95413,94075,2264 3,67650,0176	10,31432,36157 19,30398	7:48
12	89971,01967,35603 7,61951,88002	2 06124,95599 91,57502	2 29101,50039 82,38749	9,95410,26425,2088 3,67813,4483	10,31413,05759 19,29866	7:12
11	89963,40015,47601 7,62225,92421	2 06033,38097 91,50918	2 29019,11290 82,32129	9,95406,58611,7605 3,67976,9068	10,31393,75893 19,29336	6:36
10	89955,77789,55180 7,62499,94517	2 05941,87179 91,44343	2 28936,79161 82,25515	9,95402,90634,8537 3,68140,3929	10,31374,46557 19,28806	6: 0
9	89948,15289,60663 7,62773,94292	2 05850,42836 91,37774	2 28854,53646 82,18911	9,95399,22494,4608 3,68303,9068	10,31355,17751 19,28277	5:24
8	89940,52515,66371 7,63047,91742	2 05759,05062 91,31214	2 28772,34735 82,12313	9,95395,54190,5540 3,68467,4483	10,31335,89474 19,27748	4:48
7	89932,89467,74629 7,63321,86869	2 05667,73848 91,24660	2 28690,22422 82,05723	9,95391,85723,1057 3,68631,0177	10,31316,61726 19,27220	4:12
6	89925,26145,87760 7,63595,79670	2 05576,49188 91,18115	2 28608,16699 81,99141	9,95388,17092,0880 3,68794,6148	10,31297,34506 19,26691	3:36
5	89917,62550,08090 7,63869,70144	2 05485,31073 91,11577	2 28526,17558 81,92565	9,95384,48297,4732 3,68958,2397	10,31278,07815 19,26165	3: 0
4	89909,98680,37946 7,64143,58293	2 05394,19496 91,05046	2 28444,24993 81,85999	9,95380,79339,2335 3,69121,8924	10,31258,81650 19,25638	2:24
3	89902,34536,79653 7,64417,44113	2 05303,14450 90,98524	2 28362,38994 81,79439	9,95377,10217,3411 3,69285,5730	10,31239,56012 19,25111	1:48
2	89894,70119,35540 7,64691,27605	2 05212,15926 90,92009	2 28280,59555 81,72886	9,95373,40931,7681 3,69449,2813	10,31220,30901 19,24586	1:12
1	89887,05428,07935 7,64965,08768	2 05121,23917 90,85501	2 28198,86669 81,66342	9,95369,71482,4868 3,69613,0175	10,31201,06315 19,24061	0:36
0	89879,40462,99167 7,65238,87600	2 05030,38416 90,79001	2 28117,20327 81,59805	9,95366,01869,4693 3,69776,7816	10,31181,82254 19,23536	0: 0

GRAD. 64.

26. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	43837,11467,89077	48773,25886	1 11260,19405	9,64184,19615,2863	9,68818,17746	0: 0
	15,68624,76482	21,60697	9,47357	15,53759,2484	19,23536	
1	43852,80092,65559	48794,86583	1 11269,66762	9,64199,73374,5347	9,68837,41282	0:36
	15,68491,18155	21,61066	9,47857	15,53071,3181	19,23012	
2	43868,48583,83714	48816,47649	1 11279,14619	9,64215,26445,8528	9,68856,64294	1:12
	15,68357,55049	21,61434	9,48358	15,52383,8798	19,22488	
3	43884,16941,38763	48838,09083	1 11288,62977	9,64230,78829,7326	9,68875,86782	1:48
	15,68223,87168	21,61802	9,48858	15,51696,9326	19,21965	
4	43899,85165,25931	48859,70885	1 11298,11835	9,64246,30526,6652	9,68895,08747	2:24
	15,68090,14507	21,62171	9,49360	15,51010,4761	19,21443	
5	43915,53255,40438	48881,33056	1 11307,61195	9,64261,81537,1413	9,68914,30190	3: 0
	15,67956,37072	21,62540	9,49860	15,50324,5099	19,20920	
6	43931,21211,77510	48902,95596	1 11317,11055	9,64277,31861,6512	9,68933,51110	3:36
	15,67822,54859	21,62909	9,50362	15,49639,0332	19,20399	
7	43946,89034,32369	48924,58505	1 11326,61417	9,64292,81500,6844	9,68952,71509	4:12
	15,67688,67871	21,63279	9,50863	15,48954,0455	19,19878	
8	43962,56723,00240	48946,21784	1 11336,12280	9,64308,30454,7299	9,68971,91387	4:48
	15,67554,76107	21,63648	9,51365	15,48269,5462	19,19358	
9	43978,24277,76347	48967,85432	1 11345,63645	9,64323,78724,2761	9,68991,10745	5:24
	15,67420,79568	21,64018	9,51867	15,47585,5349	19,18837	
10	43993,91698,55915	48989,49450	1 11355,15512	9,64339,26309,8110	9,69010,29582	6: 0
	15,67286,78255	21,64388	9,52369	15,46902,0107	19,18318	
11	44009,58985,34170	49011,13838	1 11364,67881	9,64354,73211,8217	9,69029,47900	6:36
	15,67152,72167	21,64759	9,52871	15,46218,9735	19,17799	
12	44025,26138,06337	49032,78597	1 11374,20752	9,64370,19430,7952	9,69048,65699	7:12
	15,67018,61306	21,65129	9,53373	15,45536,4223	19,17281	
13	44040,93156,67643	49054,43726	1 11383,74125	9,64385,64967,2175	9,69067,82980	7:48
	15,66884,45670	21,65500	9,53876	15,44854,3568	19,16762	
14	44056,60041,13313	49076,09226	1 11393,28001	9,64401,09821,5743	9,69086,99742	8:24
	15,66750,25263	21,65871	9,54379	15,44172,7764	19,16245	
15	44072,26791,38576	49097,75097	1 11402,82380	9,64416,53994,3507	9,69106,15987	9: 0
	15,66616,00083	21,66242	9,54881	15,43491,6804	19,15729	
16	44087,93407,38659	49119,41339	1 11412,37261	9,64431,97486,0311	9,69125,31716	9:36
	15,66481,70129	21,66613	9,55385	15,42811,0685	19,15212	
17	44103,59889,08788	49141,07952	1 11421,92646	9,64447,40297,0996	9,69144,46928	10:12
	15,66347,35405	21,66986	9,55889	15,42130,9400	19,14696	
18	44119,26236,44193	49162,74938	1 11431,48535	9,64462,82428,0396	9,69163,61624	10:48
	15,66212,95910	21,67357	9,56391	15,41451,2942	19,14180	
19	44134,92449,40103	49184,42295	1 11441,04926	9,64478,23879,3338	9,69182,75804	11:24
	15,66078,51642	21,67729	9,56896	15,40772,1307	19,13666	
20	44150,58527,91745	49206,10024	1 11450,61822	9,64493,64651,4645	9,69201,89470	12: 0
	15,65944,02605	21,68102	9,57399	15,40093,4491	19,13151	
21	44166,24471,94350	49227,78126	1 11460,19221	9,64509,04744,9136	9,69221,02621	12:36
	15,65809,48798	21,68474	9,57903	15,39415,2485	19,12638	
22	44181,90281,43148	49249,46600	1 11469,77124	9,64524,44160,1621	9,69240,15259	13:12
	15,65674,90221	21,68847	9,58408	15,38737,5286	19,12124	
23	44197,55956,33369	49271,15447	1 11479,35532	9,64539,82897,6907	9,69259,27383	13:48
	15,65540,26874	21,69220	9,58912	15,38060,2888	19,11612	
24	44213,21496,60243	49292,84667	1 11488,94444	9,64555,20957,9795	9,69278,38995	14:24
	15,65405,58758	21,69593	9,59417	15,37383,5285	19,11099	
25	44228,86902,19001	49314,54260	1 11498,53861	9,64570,58341,5080	9,69297,50094	15: 0
	15,65270,85875	21,69967	9,59922	15,36707,2471	19,10587	
26	44244,52173,04876	49336,24227	1 11508,13783	9,64585,95048,7551	9,69316,60681	15:36
	15,65136,08223	21,70341	9,60426	15,36031,4442	19,10076	
27	44260,17309,13099	49357,94568	1 11517,74209	9,64601,31080,1993	9,69335,70757	16:12
	15,65001,25803	21,70714	9,60932	15,35356,1191	19,09565	
28	44275,82310,38902	49379,65282	1 11527,35141	9,64616,66436,3184	9,69354,80322	16:48
	15,64866,38616	21,71089	9,61438	15,34681,2714	19,09055	
29	44291,47176,77518	49401,36371	1 11536,96579	9,64632,01117,5898	9,69373,89377	17:24
	15,64731,46662	21,71463	9,61942	15,34006,9005	19,08545	
30	44307,11908,24180	49423,07834	1 11546,58521	9,64647,35124,4903	9,69392,97922	18: 0
	15,64596,49942	21,71838	9,62449	15,33333,0058	19,08036	
31	44322,76504,74122	49444,79672	1 11556,20970	9,64662,68457,4961	9,69412,05958	18:36
	15,64461,48455	21,72213	9,62955	15,32659,5867	19,07526	
32	44338,40966,22577	49466,51885	1 11565,83925	9,64678,01117,0828	9,69431,13484	19:12
	15,64326,42204	21,72588	9,63461	15,31986,6428	19,07019	
33	44354,05292,64781	49488,24473	1 11575,47386	9,64693,33103,7256	9,69450,20503	19:48
	15,64191,31187	21,72963	9,63967	15,31314,1736	19,06511	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	89879,40462,99167 7,65238,87600	2 05030,38416 90,79001	2 28117,20327 81,59805	9,95366,01869,4693 3,69776,7816	10,31181,82254 19,23536	60: 0
99	89871,75224,11567 7,65512,64101	2 04939,59415 90,72509	2 28035,60522 81,53275	9,95362,32092,6877 3,69940,5736	10,31162,58718 19,23012	59:24
98	89864,09711,47466 7,65786,38270	2 04848,86906 90,66023	2 27954,07247 81,46753	9,95358,62152,1141 3,70104,3934	10,31143,35706 19,22488	58:48
97	89856,43925,09196 7,66060,10107	2 04758,20883 90,59546	2 27872,60494 81,40238	9,95354,92047,7207 3,70268,2413	10,31124,13218 19,21965	58:12
96	89848,77864,99089 7,66333,79610	2 04667,61337 90,53076	2 27791,20256 81,33732	9,95351,21779,4794 3,70432,1170	10,31104,91253 19,21443	57:36
95	89841,11531,19479 7,66607,46779	2 04577,08261 90,46613	2 27709,86524 81,27231	9,95347,51347,3624 3,70596,0208	10,31085,69810 19,20920	57: 0
94	89833,44923,72700 7,66881,11612	2 04486,61648 90,40158	2 27628,59293 81,20739	9,95343,80751,3416 3,70759,9524	10,31066,48890 19,20399	56:24
93	89825,78042,61088 7,67154,74110	2 04396,21490 90,33711	2 27547,38554 81,14255	9,95340,09991,3892 3,70923,9121	10,31047,28491 19,19878	55:48
92	89818,10887,86978 7,67428,34270	2 04305,87779 90,27270	2 27466,24299 81,07777	9,95336,39067,4771 3,71087,8998	10,31028,08613 19,19358	55:12
91	89810,43459,52708 7,67701,92092	2 04215,60509 90,20838	2 27385,16522 81,01307	9,95332,67979,5773 3,71251,9155	10,31008,89255 19,18837	54:36
90	89802,75757,60616 7,67975,47577	2 04125,39671 90,14412	2 27304,15215 80,94845	9,95328,96727,6618 3,71415,9592	10,30989,70418 19,18318	54: 0
89	89795,07782,13039 7,68249,00722	2 04035,25259 90,07994	2 27223,20370 80,88390	9,95325,25311,7026 3,71580,0311	10,30970,52100 19,17799	53:24
88	89787,39533,12317 7,68522,51527	2 03945,17265 90,01584	2 27142,31980 80,81941	9,95321,53731,6715 3,71744,1309	10,30951,34301 19,17281	52:48
87	89779,71010,60790 7,68795,99990	2 03855,15681 89,95181	2 27061,50039 80,75502	9,95317,81987,5406 3,71908,2590	10,30932,17020 19,16762	52:12
86	89772,02214,60800 7,69069,46112	2 03765,20500 89,88784	2 26980,74537 80,69068	9,95314,10079,2816 3,72072,4151	10,30913,00258 19,16245	51:36
85	89764,33145,14688 7,69342,89890	2 03675,31716 89,82397	2 26900,05469 80,62643	9,95310,38006,8665 3,72236,5992	10,30893,84013 19,15729	51: 0
84	89756,63802,24798 7,69616,31327	2 03585,49319 89,76015	2 26819,42826 80,56224	9,95306,65770,2673 3,72400,8117	10,30874,68284 19,15212	50:24
83	89748,94185,93471 7,69889,70417	2 03495,73304 89,69642	2 26738,86602 80,49813	9,95302,93369,4556 3,72565,0522	10,30855,53072 19,14696	49:48
82	89741,24296,23054 7,70163,07163	2 03406,03662 89,63275	2 26658,36789 80,43410	9,95299,20804,4034 3,72729,3210	10,30836,38376 19,14180	49:12
81	89733,54133,15891 7,70436,41563	2 03316,40387 89,56916	2 26577,93379 80,37013	9,95295,48075,0824 3,72893,6178	10,30817,24196 19,13666	48:36
80	89725,83696,74328 7,70709,73615	2 03226,83471 89,50565	2 26497,56366 80,30624	9,95291,75181,4646 3,73057,9430	10,30798,10530 19,13151	48: 0
79	89718,12987,00713 7,70983,03321	2 03137,32906 89,44220	2 26417,25742 80,24242	9,95288,02123,5216 3,73222,2964	10,30778,97379 19,12638	47:24
78	89710,42003,97392 7,71256,30677	2 03047,88686 89,37883	2 26337,01500 80,17868	9,95284,28901,2252 3,73386,6780	10,30759,84741 19,12124	46:48
77	89702,70747,66715 7,71529,55685	2 02958,50803 89,31553	2 26256,83632 80,11500	9,95280,55514,5472 3,73551,0879	10,30740,72617 19,11612	46:12
76	89694,99218,11030 7,71802,78342	2 02869,19250 89,25230	2 26176,72132 80,05140	9,95276,81963,4593 3,73715,5261	10,30721,61005 19,11099	45:36
75	89687,27415,32688 7,72075,98647	2 02779,94020 89,18915	2 26096,66992 79,98788	9,95273,08247,9332 3,73879,9926	10,30702,49906 19,10587	45: 0
74	89679,55339,34041 7,72349,16602	2 02690,75105 89,12607	2 26016,68204 79,92442	9,95269,34367,9406 3,74044,4873	10,30683,39319 19,10076	44:24
73	89671,82990,17439 7,72622,32203	2 02601,62498 89,06306	2 25936,75762 79,86103	9,95265,60323,4533 3,74209,0105	10,30664,29243 19,09565	43:48
72	89664,10367,85236 7,72895,45451	2 02512,56192 89,00012	2 25856,89659 79,79773	9,95261,86114,4428 3,74373,5620	10,30645,19678 19,09055	43:12
71	89656,37472,39785 7,73168,56344	2 02423,56180 88,93726	2 25777,09886 79,73448	9,95258,11740,8808 3,74538,1419	10,30626,10623 19,08545	42:36
70	89648,64303,83441 7,73441,64883	2 02334,62454 88,87447	2 25697,36438 79,67132	9,95254,37202,7389 3,74702,7501	10,30607,02078 19,08036	42: 0
69	89640,90862,18558 7,73714,71065	2 02245,75007 88,81175	2 25617,69306 79,60822	9,95250,62499,9888 3,74867,3868	10,30587,94042 19,07526	41:24
68	89633,17147,47493 7,73987,74890	2 02156,93832 88,74909	2 25538,08484 79,54520	9,95246,87632,6020 3,75032,0518	10,30568,86516 19,07019	40:48
67	89625,43159,72603 7,74260,76358	2 02068,18923 88,68652	2 25458,53964 79,48224	9,95243,12600,5502 3,75196,7454	10,30549,79497 19,06511	40:12

GRAD. 63.

26. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	44354,05292,64781 15,64191,31187	49488,24473 21,72963	1 11575,47386 9,63967	9,64693,33103,7256 15,31314,1736	9,69450,20503 19,06511	19:48
34	44369,69483,95968 15,64056,15404	49509,97436 21,73339	1 11585,11353 9,64474	9,64708,64417,8992 15,30642,1783	9,69469,27014 19,06004	20:24
35	44385,33540,11372 15,63920,94859	49531,70775 21,73714	1 11594,75827 9,64980	9,64723,95060,0775 15,29970,6566	9,69488,33018 19,05497	21: 0
36	44400,97461,06231 15,63785,69548	49553,44489 21,74091	1 11604,40807 9,65487	9,64739,25030,7341 15,29299,6078	9,69507,38515 19,04990	21:36
37	44416,61246,75779 15,63650,39474	49575,18580 21,74467	1 11614,06294 9,65995	9,64754,54330,3419 15,28629,0316	9,69526,43505 19,04485	22:12
38	44432,24897,15253 15,63515,04637	49596,93047 21,74843	1 11623,72289 9,66502	9,64769,82959,3735 15,27958,9271	9,69545,47990 19,03980	22:48
39	44447,88412,19890 15,63379,65037	49618,67890 21,75220	1 11633,38791 9,67009	9,64785,10918,3006 15,27289,2940	9,69564,51970 19,03474	23:24
40	44463,51791,84927 15,63244,20676	49640,43110 21,75597	1 11643,05800 9,67517	9,64800,38207,5946 15,26620,1318	9,69583,55444 19,02971	24: 0
41	44479,15036,05603 15,63108,71551	49662,18707 21,75974	1 11652,73317 9,68025	9,64815,64827,7264 15,25951,4398	9,69602,58415 19,02467	24:36
42	44494,78144,77154 15,62973,17666	49683,94681 21,76352	1 11662,41342 9,68533	9,64830,90779,1662 15,25283,2176	9,69621,60882 19,01963	25:12
43	44510,41117,94820 15,62837,59020	49705,71033 21,76729	1 11672,09875 9,69041	9,64846,16062,3838 15,24615,4646	9,69640,62845 19,01461	25:48
44	44526,03955,53840 15,62701,95612	49727,47762 21,77107	1 11681,78916 9,69550	9,64861,40677,8484 15,23948,1802	9,69659,64306 19,00958	26:24
45	44541,66657,49452 15,62566,27444	49749,24869 21,77485	1 11691,48466 9,70058	9,64876,64626,0286 15,23281,3640	9,69678,65264 19,00457	27: 0
46	44557,29223,76896 15,62430,54518	49771,02354 21,77864	1 11701,18524 9,70567	9,64891,87907,3926 15,22615,0154	9,69697,65721 18,99955	27:36
47	44572,91654,31414 15,62294,76830	49792,80218 21,78242	1 11710,89091 9,71076	9,64907,10522,4080 15,21949,1339	9,69716,65676 18,99455	28:12
48	44588,53949,08244 15,62158,94385	49814,58460 21,78621	1 11720,60167 9,71586	9,64922,32471,5419 15,21283,7188	9,69735,65131 18,98954	28:48
49	44604,16108,02629 15,62023,07180	49836,37081 21,79000	1 11730,31753 9,72095	9,64937,53755,2607 15,20618,7699	9,69754,64085 18,98455	29:24
50	44619,78131,09809 15,61887,15217	49858,16081 21,79379	1 11740,03848 9,72604	9,64952,74374,0306 15,19954,2864	9,69773,62540 18,97955	30: 0
51	44635,40018,25026 15,61751,18498	49879,95460 21,79758	1 11749,76452 9,73114	9,64967,94328,3170 15,19290,2679	9,69792,60495 18,97456	30:36
52	44651,01769,43524 15,61615,17019	49901,75218 21,80139	1 11759,49566 9,73625	9,64983,13618,5849 15,18626,7137	9,69811,57951 18,96958	31:12
53	44666,63384,60543 15,61479,10785	49923,55357 21,80518	1 11769,23191 9,74134	9,64998,32245,2986 15,17963,6235	9,69830,54909 18,96461	31:48
54	44682,24863,71328 15,61342,99793	49945,35875 21,80899	1 11778,97325 9,74645	9,65013,50208,9221 15,17300,9966	9,69849,51370 18,95963	32:24
55	44697,86206,71121 15,61206,84046	49967,16774 21,81279	1 11788,71970 9,75155	9,65028,67509,9187 15,16638,8327	9,69868,47333 18,95466	33: 0
56	44713,47413,55167 15,61070,63543	49988,98053 21,81659	1 11798,47125 9,75666	9,65043,84148,7514 15,15977,1309	9,69887,42799 18,94969	33:36
57	44729,08484,18710 15,60934,38285	50010,79712 21,82041	1 11808,22791 9,76177	9,65059,00125,8823 15,15315,8911	9,69906,37768 18,94474	34:12
58	44744,69418,56995 15,60798,08271	50032,61753 21,82421	1 11817,98968 9,76688	9,65074,15441,7734 15,14655,1124	9,69925,32242 18,93979	34:48
59	44760,30216,65266 15,60661,73504	50054,44174 21,82803	1 11827,75656 9,77200	9,65089,30096,8858 15,13994,7945	9,69944,26221 18,93483	35:24
60	44775,90878,38770 15,60525,33982	50076,26977 21,83185	1 11837,52856 9,77711	9,65104,44091,6803 15,13334,9369	9,69963,19704 18,92989	36: 0
61	44791,51403,72752 15,60388,89706	50098,10162 21,83566	1 11847,30567 9,78223	9,65119,57426,6172 15,12675,5389	9,69982,12693 18,92496	36:36
62	44807,11792,62458 15,60252,40678	50119,93728 21,83949	1 11857,08790 9,78735	9,65134,70102,1561 15,12016,6002	9,70001,05189 18,92002	37:12
63	44822,72045,03136 15,60115,86896	50141,77677 21,84331	1 11866,87525 9,79247	9,65149,82118,7563 15,11358,1201	9,70019,97191 18,91509	37:48
64	44838,32160,90032 15,59979,28363	50163,62008 21,84713	1 11876,66772 9,79759	9,65164,93476,8764 15,10700,0981	9,70038,88700 18,91016	38:24
65	44853,92140,18395 15,59842,65077	50185,46721 21,85096	1 11886,46531 9,80271	9,65180,04176,9745 15,10042,5339	9,70057,79716 18,90525	39: 0
66	44869,51982,83472 15,59705,97039	50207,31817 21,85479	1 11896,26802 9,80785	9,65195,14219,5084 15,09385,4266	9,70076,70241 18,90033	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	89625,43159,72603 7,74260,76358	2 02068,18923 88,68652	2 25458,53964 79,48224	9,95243,12600,5502 3,75196,7454	10,30549,79497 19,06511	40:12
66	89617,68898,96245 7,74533,75467	2 01979,50271 88,62402	2 25379,05740 79,41936	9,95239,37403,8048 3,75361,4674	10,30530,72986 19,06004	39:36
65	89609,94365,20778 7,74806,72217	2 01890,87869 88,56158	2 25299,63804 79,35656	9,95235,62042,3374 3,75526,2178	10,30511,66982 19,05497	39: 0
64	89602,19558,48561 7,75079,66606	2 01802,31711 88,49921	2 25220,28148 79,29381	9,95231,86516,1196 3,75690,9968	10,30492,61485 19,04990	38:24
63	89594,44478,81955 7,75352,58635	2 01713,81790 88,43693	2 25140,98767 79,23114	9,95228,10825,1228 3,75855,8043	10,30473,56495 19,04485	37:48
62	89586,69126,23320 7,75625,48302	2 01625,38097 88,37471	2 25061,75653 79,16855	9,95224,34969,3185 3,76020,6402	10,30454,52010 19,03980	37:12
61	89578,93500,75018 7,75898,35605	2 01537,00626 88,31255	2 24982,58798 79,10602	9,95220,58948,6783 3,76185,5048	10,30435,48030 19,03474	36:36
60	89571,17602,39413 7,76171,20546	2 01448,69371 88,25048	2 24903,48196 79,04357	9,95216,82763,1735 3,76350,3979	10,30416,44556 19,02971	36: 0
59	89563,41431,18867 7,76444,03122	2 01360,44323 88,18847	2 24824,43839 78,98118	9,95213,06412,7756 3,76515,3196	10,30397,41585 19,02467	35:24
58	89555,64987,15745 7,76716,83333	2 01272,25476 88,12653	2 24745,45721 78,91887	9,95209,29897,4560 3,76680,2699	10,30378,39118 19,01963	34:48
57	89547,88270,32412 7,76989,61178	2 01184,12823 88,06467	2 24666,53834 78,85662	9,95205,53217,1861 3,76845,2488	10,30359,37155 19,01461	34:12
56	89540,11280,71234 7,77262,36656	2 01096,06356 88,00287	2 24587,68172 78,79445	9,95201,76371,9373 3,77010,2563	10,30340,35694 19,00958	33:36
55	89532,34018,34578 7,77535,09766	2 01008,06069 87,94114	2 24508,88727 78,73234	9,95197,99361,6810 3,77175,2925	10,30321,34736 19,00457	33: 0
54	89524,56483,24812 7,77807,80509	2 00920,11955 87,87949	2 24430,15493 78,67032	9,95194,22186,3885 3,77340,3573	10,30302,34279 18,99955	32:24
53	89516,78675,44303 7,78080,48880	2 00832,24006 87,81790	2 24351,48461 78,60835	9,95190,44846,0312 3,77505,4509	10,30283,34324 18,99455	31:48
52	89509,00594,95423 7,78353,14883	2 00744,42216 87,75639	2 24272,87626 78,54645	9,95186,67340,5803 3,77670,5731	10,30264,34869 18,98954	31:12
51	89501,22241,80540 7,78625,78515	2 00656,66577 87,69494	2 24194,32981 78,48464	9,95182,89670,0072 3,77835,7241	10,30245,35915 18,98455	30:36
50	89493,43616,02025 7,78898,39774	2 00568,97083 87,63357	2 24115,84517 78,42287	9,95179,11834,2831 3,78000,9038	10,30226,37460 18,97955	30: 0
49	89485,64717,62251 7,79170,98661	2 00481,33726 87,57226	2 24037,42230 78,36120	9,95175,33833,3793 3,78166,1123	10,30207,39505 18,97456	29:24
48	89477,85546,63590 7,79443,55174	2 00393,76500 87,51103	2 23959,06110 78,29958	9,95171,55667,2670 3,78331,3495	10,30188,42049 18,96958	28:48
47	89470,06103,08416 7,79716,09314	2 00306,25397 87,44986	2 23880,76152 78,23803	9,95167,77335,9175 3,78496,6155	10,30169,45091 18,96461	28:12
46	89462,26386,99102 7,79988,61077	2 00218,80411 87,38877	2 23802,52349 78,17656	9,95163,98839,3020 3,78661,9104	10,30150,48630 18,95963	27:36
45	89454,46398,38025 7,80261,10465	2 00131,41534 87,32773	2 23724,34693 78,11515	9,95160,20177,3916 3,78827,2340	10,30131,52667 18,95466	27: 0
44	89446,66137,27560 7,80533,57477	2 00044,08761 87,26678	2 23646,23178 78,05382	9,95156,41350,1576 3,78992,5865	10,30112,57201 18,94969	26:24
43	89438,85603,70083 7,80806,02109	1 99956,82083 87,20589	2 23568,17796 77,99254	9,95152,62357,5711 3,79157,9679	10,30093,62232 18,94474	25:48
42	89431,04797,67974 7,81078,44365	1 99869,61494 87,14506	2 23490,18542 77,93135	9,95148,83199,6032 3,79323,3782	10,30074,67758 18,93979	25:12
41	89423,23719,23609 7,81350,84241	1 99782,46988 87,08432	2 23412,25407 77,87021	9,95145,03876,2250 3,79488,8173	10,30055,73779 18,93483	24:36
40	89415,42368,39368 7,81623,21736	1 99695,38556 87,02363	2 23334,38386 77,80915	9,95141,24387,4077 3,79654,2853	10,30036,80296 18,92989	24: 0
39	89407,60745,17632 7,81895,56851	1 99608,36193 86,96302	2 23256,57471 77,74816	9,95137,44733,1224 3,79819,7823	10,30017,87307 18,92496	23:24
38	89399,78849,60781 7,82167,89583	1 99521,39891 86,90248	2 23178,82655 77,68723	9,95133,64913,3401 3,79985,3083	10,29998,94811 18,92002	22:48
37	89391,96681,71198 7,82440,19934	1 99434,49643 86,84200	2 23101,13932 77,62637	9,95129,84928,0318 3,80150,8632	10,29980,02809 18,91509	22:12
36	89384,14241,51264 7,82712,47901	1 99347,65443 86,78159	2 23023,51295 77,56558	9,95126,04777,1686 3,80316,4471	10,29961,11300 18,91016	21:36
35	89376,31529,03363 7,82984,73483	1 99260,87284 86,72124	2 22945,94737 77,50487	9,95122,24460,7215 3,80482,0600	10,29942,20284 18,90525	21: 0
34	89368,48544,29880 7,83256,96680	1 99174,15160 86,66098	2 22868,44250 77,44421	9,95118,43978,6615 3,80647,7019	10,29923,29759 18,90033	20:24

GRAD. 63.

26. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	44885,11688,80511	50229,17296	1 11906,07587	9,65210,23604,9350	9,70095,60274	40:12
	15,59569,24251	21,85862	9,81297	15,08728,7760	18,89542	
68	44900,71258,04762	50251,03158	1 11915,88884	9,65225,32333,7110	9,70114,49816	40:48
	15,59432,46712	21,86246	9,81810	15,08072,5814	18,89052	
69	44916,30690,51474	50272,89404	1 11925,70694	9,65240,40406,2924	9,70133,38868	41:24
	15,59295,64423	21,86629	9,82324	15,07416,8425	18,88561	
70	44931,89986,15897	50294,76033	1 11935,53018	9,65255,47823,1349	9,70152,27429	42: 0
	15,59158,77383	21,87013	9,82837	15,06761,5586	18,88073	
71	44947,49144,93280	50316,63046	1 11945,35855	9,65270,54584,6935	9,70171,15502	42:36
	15,59021,85594	21,87398	9,83351	15,06106,7292	18,87583	
72	44963,08166,78874	50338,50444	1 11955,19206	9,65285,60691,4227	9,70190,03085	43:12
	15,58884,89056	21,87782	9,83865	15,05452,3538	18,87094	
73	44978,67051,67930	50360,38226	1 11965,03071	9,65300,66143,7765	9,70208,90179	43:48
	15,58747,87770	21,88166	9,84378	15,04798,4320	18,86607	
74	44994,25799,55700	50382,26392	1 11974,87449	9,65315,70942,2085	9,70227,76786	44:24
	15,58610,81735	21,88551	9,84893	15,04144,9632	18,86118	
75	45009,84410,37435	50404,14943	1 11984,72342	9,65330,75087,1717	9,70246,62904	45: 0
	15,58473,70953	21,88937	9,85408	15,03491,9468	18,85632	
76	45025,42884,08388	50426,03880	1 11994,57750	9,65345,78579,1185	9,70265,48536	45:36
	15,58336,55422	21,89321	9,85922	15,02839,3824	18,85145	
77	45041,01220,63810	50447,93201	1 12004,43672	9,65360,81418,5009	9,70284,33681	46:12
	15,58199,35146	21,89708	9,86437	15,02187,2695	18,84659	
78	45056,59419,98956	50469,82909	1 12014,30109	9,65375,83605,7704	9,70303,18340	46:48
	15,58062,10122	21,90093	9,86952	15,01535,6076	18,84173	
79	45072,17482,09078	50491,73002	1 12024,17061	9,65390,85141,3780	9,70322,02513	47:24
	15,57924,80353	21,90479	9,87467	15,00884,3961	18,83689	
80	45087,75406,89431	50513,63481	1 12034,04528	9,65405,86025,7741	9,70340,86202	48: 0
	15,57787,45837	21,90865	9,87983	15,00233,6346	18,83203	
81	45103,33194,35268	50535,54346	1 12043,92511	9,65420,86259,4087	9,70359,69405	48:36
	15,57650,06577	21,91252	9,88498	14,99583,3225	18,82719	
82	45118,90844,41845	50557,45598	1 12053,81009	9,65435,85842,7312	9,70378,52124	49:12
	15,57512,62571	21,91639	9,89014	14,98933,4594	18,82236	
83	45134,48357,04416	50579,37237	1 12063,70023	9,65450,84776,1906	9,70397,34360	49:48
	15,57375,13822	21,92026	9,89530	14,98284,0446	18,81752	
84	45150,05732,18238	50601,29263	1 12073,59553	9,65465,83060,2352	9,70416,16112	50:24
	15,57237,60328	21,92412	9,90047	14,97635,0779	18,81269	
85	45165,62969,78566	50623,21675	1 12083,49600	9,65480,80695,3131	9,70434,97381	51: 0
	15,57100,02090	21,92801	9,90562	14,96986,5585	18,80787	
86	45181,20069,80656	50645,14476	1 12093,40162	9,65495,77681,8716	9,70453,78168	51:36
	15,56962,39109	21,93188	9,91080	14,96338,4861	18,80305	
87	45196,77032,19765	50667,07664	1 12103,31242	9,65510,74020,3577	9,70472,58473	52:12
	15,56824,71386	21,93576	9,91596	14,95690,8602	18,79824	
88	45212,33856,91151	50689,01240	1 12113,22838	9,65525,69711,2179	9,70491,38297	52:48
	15,56686,98920	21,93964	9,92113	14,95043,6800	18,79343	
89	45227,90543,90071	50710,95204	1 12123,14951	9,65540,64754,8979	9,70510,17640	53:24
	15,56549,21712	21,94352	9,92631	14,94396,9454	18,78862	
90	45243,47093,11783	50732,89556	1 12133,07582	9,65555,59151,8433	9,70528,96502	54: 0
	15,56411,39762	21,94741	9,93147	14,93750,6557	18,78383	
91	45259,03504,51545	50754,84297	1 12143,00729	9,65570,52902,4990	9,70547,74885	54:36
	15,56273,53073	21,95130	9,93666	14,93104,8105	18,77903	
92	45274,59778,04618	50776,79427	1 12152,94395	9,65585,46007,3095	9,70566,52788	55:12
	15,56135,61641	21,95519	9,94183	14,92459,4090	18,77424	
93	45290,15913,66259	50798,74946	1 12162,88578	9,65600,38466,7185	9,70585,30212	55:48
	15,55997,65470	21,95909	9,94702	14,91814,4512	18,76945	
94	45305,71911,31729	50820,70855	1 12172,83280	9,65615,30281,1697	9,70604,07157	56:24
	15,55859,64558	21,96298	9,95219	14,91169,9361	18,76468	
95	45321,27770,96287	50842,67153	1 12182,78499	9,65630,21451,1058	9,70622,83625	57: 0
	15,55721,58908	21,96688	9,95738	14,90525,8636	18,75990	
96	45336,83492,55195	50864,63841	1 12192,74237	9,65645,11976,9694	9,70641,59615	57:36
	15,55583,48518	21,97078	9,96256	14,89882,2331	18,75512	
97	45352,39076,03713	50886,60919	1 12202,70493	9,65660,01859,2025	9,70660,35127	58:12
	15,55445,33391	21,97468	9,96776	14,89239,0439	18,75037	
98	45367,94521,37104	50908,58387	1 12212,67269	9,65674,91098,2464	9,70679,10164	58:48
	15,55307,13523	21,97858	9,97294	14,88596,2957	18,74560	
99	45383,49828,50627	50930,56245	1 12222,64563	9,65689,79694,5421	9,70697,84724	59:24
	15,55168,88920	21,98250	9,97813	14,87953,9880	18,74084	
100	45399,04997,39547	50952,54495	1 12232,62376	9,65704,67648,5301	9,70716,58808	60: 0
	15,55030,59578	21,98640	9,98333	14,87312,1202	18,73609	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	89360,65287,33200 7,83529,17492	1 99087,49062 86,60078	2 22790,99829 77,38362	9,95114,63330,9596 3,80813,3728	10,29904,39726 18,89542	19:48
32	89352,81758,15708 7,83801,35917	1 99000,88984 86,54063	2 22713,61467 77,32311	9,95110,82517,5868 3,80979,0729	10,29885,50184 18,89052	19:12
31	89344,97956,79791 7,84073,51953	1 98914,34921 86,48057	2 22636,29156 77,26266	9,95107,01538,5139 3,81144,8019	10,29866,61132 18,88561	18:36
30	89337,13883,27838 7,84345,65603	1 98827,86864 86,42057	2 22559,02890 77,20227	9,95103,20393,7120 3,81310,5602	10,29847,72571 18,88073	18: 0
29	89329,29537,62235 7,84617,76861	1 98741,44807 86,36064	2 22481,82663 77,14196	9,95099,39083,1518 3,81476,3474	10,29828,84498 18,87583	17:24
28	89321,44919,85374 7,84889,85731	1 98655,08743 86,30077	2 22404,68467 77,08172	9,95095,57606,8044 3,81642,1639	10,29809,96915 18,87094	16:48
27	89313,60029,99643 7,85161,92210	1 98568,78666 86,24098	2 22327,60295 77,02153	9,95091,75964,6405 3,81808,0094	10,29791,09821 18,86607	16:12
26	89305,74868,07433 7,85433,96296	1 98482,54568 86,18124	2 22250,58142 76,96142	9,95087,94156,6311 3,81973,8841	10,29772,23214 18,86118	15:36
25	89297,89434,11137 7,85705,97990	1 98396,36444 86,12158	2 22173,62000 76,90138	9,95084,12182,7470 3,82139,7881	10,29753,37096 18,85632	15: 0
24	89290,03728,13147 7,85977,97291	1 98310,24286 86,06199	2 22096,71862 76,84140	9,95080,30042,9589 3,82305,7211	10,29734,51464 18,85145	14:24
23	89282,17750,15856 7,86249,94197	1 98224,18087 86,00246	2 22019,87722 76,78149	9,95076,47737,2378 3,82471,6835	10,29715,66319 18,84659	13:48
22	89274,31500,21659 7,86521,88709	1 98138,17841 85,94299	2 21943,09573 76,72164	9,95072,65265,5543 3,82637,6750	10,29696,81660 18,84173	13:12
21	89266,44978,32950 7,86793,80825	1 98052,23542 85,88361	2 21866,37409 76,66186	9,95068,82627,8793 3,82803,6959	10,29677,97487 18,83689	12:36
20	89258,58184,52125 7,87065,70543	1 97966,35181 85,82427	2 21789,71223 76,60215	9,95064,99824,1834 3,82969,7459	10,29659,13798 18,83203	12: 0
19	89250,71118,81582 7,87337,57864	1 97880,52754 85,76501	2 21713,11008 76,54251	9,95061,16854,4375 3,83135,8253	10,29640,30595 18,82719	11:24
18	89242,83781,23718 7,87609,42787	1 97794,76253 85,70582	2 21636,56757 76,48293	9,95057,33718,6122 3,83301,9339	10,29621,47876 18,82236	10:48
17	89234,96171,80931 7,87881,25312	1 97709,05671 85,64669	2 21560,08464 76,42342	9,95053,50416,6783 3,83468,0720	10,29602,65640 18,81752	10:12
16	89227,08290,55619 7,88153,05434	1 97623,41002 85,58763	2 21483,66122 76,36397	9,95049,66948,6063 3,83634,2393	10,29583,83888 18,81269	9:36
15	89219,20137,50185 7,88424,83158	1 97537,82239 85,52863	2 21407,29725 76,30459	9,95045,83314,3670 3,83800,4360	10,29565,02619 18,80787	9: 0
14	89211,31712,67027 7,88696,58479	1 97452,29376 85,46970	2 21330,99266 76,24528	9,95041,99513,9310 3,83966,6620	10,29546,21832 18,80305	8:24
13	89203,43016,08548 7,88968,31397	1 97366,82406 85,41084	2 21254,74738 76,18603	9,95038,15547,2690 3,84132,9176	10,29527,41527 18,79824	7:48
12	89195,54047,77151 7,89240,01913	1 97281,41322 85,35205	2 21178,56135 76,12685	9,95034,31414,3514 3,84299,2024	10,29508,61703 18,79343	7:12
11	89187,64807,75238 7,89511,70024	1 97196,06117 85,29331	2 21102,43450 76,06773	9,95030,47115,1490 3,84465,5167	10,29489,82360 18,78862	6:36
10	89179,75296,05214 7,89783,35730	1 97110,76786 85,23464	2 21026,36677 76,00868	9,95026,62649,6323 3,84631,8605	10,29471,03498 18,78383	6: 0
9	89171,85512,69484 7,90054,99031	1 97025,53322 85,17605	2 20950,35809 75,94970	9,95022,78017,7718 3,84798,2337	10,29452,25115 18,77903	5:24
8	89163,95457,70453 7,90326,59924	1 96940,35717 85,11751	2 20874,40839 75,89077	9,95018,93219,5381 3,84964,6364	10,29433,47212 18,77424	4:48
7	89156,05131,10529 7,90598,18410	1 96855,23966 85,05904	2 20798,51762 75,83193	9,95015,08254,9017 3,85131,0687	10,29414,69788 18,76945	4:12
6	89148,14532,92119 7,90869,74489	1 96770,18062 85,00064	2 20722,68569 75,77313	9,95011,23123,8330 3,85297,5304	10,29395,92843 18,76468	3:36
5	89140,23663,17630 7,91141,28157	1 96685,17998 84,94230	2 20646,91256 75,71441	9,95007,37826,3026 3,85464,0216	10,29377,16375 18,75990	3: 0
4	89132,32521,89473 7,91412,79416	1 96600,23768 84,88403	2 20571,19815 75,65575	9,95003,52362,2810 3,85630,5425	10,29358,40385 18,75512	2:24
3	89124,41109,10057 7,91684,28264	1 96515,35365 84,82582	2 20495,54240 75,59715	9,94999,66731,7385 3,85797,0930	10,29339,64873 18,75037	1:48
2	89116,49424,81793 7,91955,74701	1 96430,52783 84,76768	2 20419,94525 75,53863	9,94995,80934,6455 3,85963,6729	10,29320,89836 18,74560	1:12
1	89108,57469,07092 7,92227,18724	1 96345,76015 84,70960	2 20344,40662 75,48016	9,94991,94970,9726 3,86130,2825	10,29302,15276 18,74084	0:36
0	89100,65241,88368 7,92498,60336	1 96261,05055 84,65159	2 20268,92646 75,42176	9,94988,08840,6901 3,86296,9218	10,29283,41192 18,73609	0: 0

GRAD. 63.

27. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	45399,04997,39547	50952,54495	1 12232,62376	9,65704,67648,5301	9,70716,58808	0: 0
	15,55030,59578	21,98640	9,98333	14,87312,1202	18,73609	
1	45414,60027,99125	50974,53135	1 12242,60709	9,65719,54960,6503	9,70735,32417	0:36
	15,54892,25500	21,99032	9,98853	14,86670,6920	18,73134	
2	45430,14920,24625	50996,52167	1 12252,59562	9,65734,41631,3423	9,70754,05551	1:12
	15,54753,86685	21,99423	9,99372	14,86029,7028	18,72660	
3	45445,69674,11310	51018,51590	1 12262,58934	9,65749,27661,0451	9,70772,78211	1:48
	15,54615,43134	21,99815	9,99892	14,85389,1520	18,72186	
4	45461,24289,54444	51040,51405	1 12272,58826	9,65764,13050,1971	9,70791,50397	2:24
	15,54476,94848	22,00207	10,00413	14,84749,0393	18,71713	
5	45476,78766,49292	51062,51612	1 12282,59239	9,65778,97799,2364	9,70810,22110	3: 0
	15,54338,41826	22,00600	10,00932	14,84109,3641	18,71240	
6	45492,33104,91118	51084,52212	1 12292,60171	9,65793,81908,6005	9,70828,93350	3:36
	15,54199,84069	22,00991	10,01454	14,83470,1259	18,70768	
7	45507,87304,75187	51106,53203	1 12302,61625	9,65808,65378,7264	9,70847,64118	4:12
	15,54061,21579	22,01384	10,01974	14,82831,3243	18,70295	
8	45523,41365,96766	51128,54587	1 12312,63599	9,65823,48210,0507	9,70866,34413	4:48
	15,53922,54354	22,01778	10,02495	14,82192,9588	18,69824	
9	45538,95288,51120	51150,56365	1 12322,66094	9,65838,30403,0095	9,70885,04237	5:24
	15,53783,82396	22,02170	10,03017	14,81555,0288	18,69353	
10	45554,49072,33516	51172,58535	1 12332,69111	9,65853,11958,0383	9,70903,73590	6: 0
	15,53645,05704	22,02564	10,03538	14,80917,5340	18,68883	
11	45570,02717,39220	51194,61099	1 12342,72649	9,65867,92875,5723	9,70922,42473	6:36
	15,53506,24280	22,02957	10,04059	14,80280,4738	18,68412	
12	45585,56223,63500	51216,64056	1 12352,76708	9,65882,73156,0461	9,70941,10885	7:12
	15,53367,38124	22,03351	10,04581	14,79643,8476	18,67943	
13	45601,09591,01624	51238,67407	1 12362,81289	9,65897,52799,8937	9,70959,78828	7:48
	15,53228,47236	22,03746	10,05103	14,79007,6552	18,67473	
14	45616,62819,48860	51260,71153	1 12372,86392	9,65912,31807,5489	9,70978,46301	8:24
	15,53089,51616	22,04140	10,05626	14,78371,8959	18,67005	
15	45632,15909,00476	51282,75293	1 12382,92018	9,65927,10179,4448	9,70997,13306	9: 0
	15,52950,51266	22,04534	10,06148	14,77736,5693	18,66537	
16	45647,68859,51742	51304,79827	1 12392,98166	9,65941,87916,0141	9,71015,79843	9:36
	15,52811,46184	22,04929	10,06670	14,77101,6749	18,66069	
17	45663,21670,97926	51326,84756	1 12403,04836	9,65956,65017,6890	9,71034,45912	10:12
	15,52672,36373	22,05324	10,07193	14,76467,2122	18,65601	
18	45678,74343,34299	51348,90080	1 12413,12029	9,65971,41484,9012	9,71053,11513	10:48
	15,52533,21833	22,05720	10,07716	14,75833,1809	18,65135	
19	45694,26876,56132	51370,95800	1 12423,19745	9,65986,17318,0821	9,71071,76648	11:24
	15,52394,02562	22,06115	10,08240	14,75199,5801	18,64668	
20	45709,79270,58694	51393,01915	1 12433,27985	9,66000,92517,6622	9,71090,41316	12: 0
	15,52254,78563	22,06511	10,08763	14,74566,4099	18,64203	
21	45725,31525,37257	51415,08426	1 12443,36748	9,66015,67084,0721	9,71109,05519	12:36
	15,52115,49836	22,06907	10,09286	14,73933,6693	18,63737	
22	45740,83640,87093	51437,15333	1 12453,46034	9,66030,41017,7414	9,71127,69256	13:12
	15,51976,16380	22,07303	10,09810	14,73301,3581	18,63272	
23	45756,35617,03473	51459,22636	1 12463,55844	9,66045,14319,0995	9,71146,32528	13:48
	15,51836,78197	22,07700	10,10335	14,72669,4758	18,62807	
24	45771,87453,81670	51481,30336	1 12473,66179	9,66059,86988,5753	9,71164,95335	14:24
	15,51697,35287	22,08097	10,10858	14,72038,0218	18,62343	
25	45787,39151,16957	51503,38433	1 12483,77037	9,66074,59026,5971	9,71183,57678	15: 0
	15,51557,87649	22,08493	10,11383	14,71406,9958	18,61880	
26	45802,90709,04606	51525,46926	1 12493,88420	9,66089,30433,5929	9,71202,19558	15:36
	15,51418,35287	22,08891	10,11908	14,70776,3973	18,61416	
27	45818,42127,39893	51547,55817	1 12504,00328	9,66104,01209,9902	9,71220,80974	16:12
	15,51278,78197	22,09289	10,12432	14,70146,2256	18,60954	
28	45833,93406,18090	51569,65106	1 12514,12760	9,66118,71356,2158	9,71239,41928	16:48
	15,51139,16382	22,09686	10,12958	14,69516,4805	18,60491	
29	45849,44545,34472	51591,74792	1 12524,25718	9,66133,40872,6963	9,71258,02419	17:24
	15,50999,49843	22,10084	10,13482	14,68887,1615	18,60030	
30	45864,95544,84315	51613,84876	1 12534,39200	9,66148,09759,8578	9,71276,62449	18: 0
	15,50859,78578	22,10482	10,14008	14,68258,2679	18,59568	
31	45880,46404,62893	51635,95358	1 12544,53208	9,66162,78018,1257	9,71295,22017	18:36
	15,50720,02590	22,10881	10,14534	14,67629,7995	18,59107	
32	45895,97124,65483	51658,06239	1 12554,67742	9,66177,45647,9252	9,71313,81124	19:12
	15,50580,21878	22,11279	10,15060	14,67001,7557	18,58647	
33	45911,47704,87361	51680,17518	1 12564,82802	9,66192,12649,6809	9,71332,39771	19:48
	15,50440,36441	22,11678	10,15585	14,66374,1360	18,58187	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	89100,65241,88368 7,92498,60336	1 96261,05055 84,65159	2 20268,92646 75,42176	9,94988,08840,6901 3,86296,9218	10,29283,41192 18,73609	60: 0
99	89092,72743,28032 7,92769,99532	1 96176,39896 84,59364	2 20193,50470 75,36343	9,94984,22543,7683 3,86463,5906	10,29264,67583 18,73134	59:24
98	89084,79973,28500 7,93041,36313	1 96091,80532 84,53575	2 20118,14127 75,30516	9,94980,36080,1777 3,86630,2892	10,29245,94449 18,72660	58:48
97	89076,86931,92187 7,93312,70680	1 96007,26957 84,47794	2 20042,83611 75,24695	9,94976,49449,8885 3,86797,0175	10,29227,21789 18,72186	58:12
96	89068,93619,21507 7,93584,02630	1 95922,79163 84,42018	2 19967,58916 75,18881	9,94972,62652,8710 3,86963,7754	10,29208,49603 18,71713	57:36
95	89061,00035,18877 7,93855,32161	1 95838,37145 84,36249	2 19892,40035 75,13073	9,94968,75689,0956 3,87130,5630	10,29189,77890 18,71240	57: 0
94	89053,06179,86716 7,94126,59275	1 95754,00896 84,30486	2 19817,26962 75,07271	9,94964,88558,5326 3,87297,3805	10,29171,06650 18,70768	56:24
93	89045,12053,27441 7,94397,83970	1 95669,70410 84,24731	2 19742,19691 75,01477	9,94961,01261,1521 3,87464,2275	10,29152,35882 18,70295	55:48
92	89037,17655,43471 7,94669,06245	1 95585,45679 84,18980	2 19667,18214 74,95688	9,94957,13796,9246 3,87631,1046	10,29133,65587 18,69824	55:12
91	89029,22986,37226 7,94940,26099	1 95501,26699 84,13237	2 19592,22526 74,89906	9,94953,26165,8200 3,87798,0112	10,29114,95763 18,69353	54:36
90	89021,28046,11127 7,95211,43532	1 95417,13462 84,07500	2 19517,32620 74,84130	9,94949,38367,8088 3,87964,9478	10,29096,26410 18,68883	54: 0
89	89013,32834,67595 7,95482,58543	1 95333,05962 84,01770	2 19442,48490 74,78361	9,94945,50402,8610 3,88131,9141	10,29077,57527 18,68412	53:24
88	89005,37352,09052 7,95753,71129	1 95249,04192 83,96045	2 19367,70129 74,72597	9,94941,62270,9469 3,88298,9103	10,29058,89115 18,67943	52:48
87	88997,41598,37923 7,96024,81292	1 95165,08147 83,90327	2 19292,97532 74,66841	9,94937,73972,0366 3,88465,9364	10,29040,21172 18,67473	52:12
86	88989,45573,56631 7,96295,89031	1 95081,17820 83,84616	2 19218,30691 74,61090	9,94933,85506,1002 3,88632,9924	10,29021,53699 18,67005	51:36
85	88981,49277,67600 7,96566,94344	1 94997,33204 83,78911	2 19143,69601 74,55346	9,94929,96873,1078 3,88800,0782	10,29002,86694 18,66537	51: 0
84	88973,52710,73256 7,96837,97229	1 94913,54293 83,73212	2 19069,14255 74,49608	9,94926,08073,0296 3,88967,1939	10,28984,20157 18,66069	50:24
83	88965,55872,76027 7,97108,97689	1 94829,81081 83,67519	2 18994,64647 74,43877	9,94922,19105,8357 3,89134,3397	10,28965,54088 18,65601	49:48
82	88957,58763,78338 7,97379,95719	1 94746,13562 83,61833	2 18920,20770 74,38151	9,94918,29971,4960 3,89301,5153	10,28946,88487 18,65135	49:12
81	88949,61383,82619 7,97650,91321	1 94662,51729 83,56153	2 18845,82619 74,32433	9,94914,40669,9807 3,89468,7210	10,28928,23352 18,64668	48:36
80	88941,63732,91298 7,97921,84494	1 94578,95576 83,50479	2 18771,50186 74,26720	9,94910,51201,2597 3,89635,9566	10,28909,58684 18,64203	48: 0
79	88933,65811,06804 7,98192,75234	1 94495,45097 83,44812	2 18697,23466 74,21013	9,94906,61565,3031 3,89803,2223	10,28890,94481 18,63737	47:24
78	88925,67618,31570 7,98463,63545	1 94412,00285 83,39151	2 18623,02453 74,15314	9,94902,71762,0808 3,89970,5179	10,28872,30744 18,63272	46:48
77	88917,69154,68025 7,98734,49422	1 94328,61134 83,33496	2 18548,87139 74,09619	9,94898,81791,5629 3,90137,8436	10,28853,67472 18,62807	46:12
76	88909,70420,18603 7,99005,32867	1 94245,27638 83,27847	2 18474,77520 74,03932	9,94894,91653,7193 3,90305,1994	10,28835,04665 18,62343	45:36
75	88901,71414,85736 7,99276,13877	1 94161,99791 83,22205	2 18400,73588 73,98251	9,94891,01348,5199 3,90472,5853	10,28816,42322 18,61880	45: 0
74	88893,72138,71859 7,99546,92454	1 94078,77586 83,16570	2 18326,75337 73,92575	9,94887,10875,9346 3,90640,0012	10,28797,80442 18,61416	44:24
73	88885,72591,79405 7,99817,68593	1 93995,61016 83,10939	2 18252,82762 73,86907	9,94883,20235,9334 3,90807,4474	10,28779,19026 18,60954	43:48
72	88877,72774,10812 8,00088,42298	1 93912,50077 83,05316	2 18178,95855 73,81243	9,94879,29428,4860 3,90974,9235	10,28760,58072 18,60491	43:12
71	88869,72685,68514 8,00359,13565	1 93829,44761 82,99698	2 18105,14612 73,75587	9,94875,38453,5625 3,91142,4300	10,28741,97581 18,60030	42:36
70	88861,72326,54949 8,00629,82394	1 93746,45063 82,94087	2 18031,39025 73,69937	9,94871,47311,1325 3,91309,9665	10,28723,37551 18,59568	42: 0
69	88853,71696,72555 8,00900,48783	1 93663,50976 82,88482	2 17957,69088 73,64293	9,94867,56001,1660 3,91477,5332	10,28704,77983 18,59107	41:24
68	88845,70796,23772 8,01171,12734	1 93580,62494 82,82883	2 17884,04795 73,58654	9,94863,64523,6328 3,91645,1302	10,28686,18876 18,58647	40:48
67	88837,69625,11038 8,01441,74243	1 93497,79611 82,77290	2 17810,46141 73,53023	9,94859,72878,5026 3,91812,7574	10,28667,60229 18,58187	40:12

GRAD. 62.

27. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	45911,47704,87361 15,50440,36441	51680,17518 22,11678	1 12564,82802 10,15585	9,66192,12649,6809 14,66374,1360	9,71332,39771 18,58187	19:48
34	45926,98145,23802 15,50300,46284	51702,29196 22,12078	1 12574,98387 10,16112	9,66206,79023,8169 14,65746,9400	9,71350,97958 18,57727	20:24
35	45942,48445,70086 15,50160,51402	51724,41274 22,12477	1 12585,14499 10,16639	9,66221,44770,7569 14,65120,1672	9,71369,55685 18,57269	21: 0
36	45957,98606,21488 15,50020,51799	51746,53751 22,12877	1 12595,31138 10,17165	9,66236,09890,9241 14,64493,8173	9,71388,12954 18,56809	21:36
37	45973,48626,73287 15,49880,47474	51768,66628 22,13276	1 12605,48303 10,17692	9,66250,74384,7414 14,63867,8895	9,71406,69763 18,56352	22:12
38	45988,98507,20761 15,49740,38429	51790,79904 22,13677	1 12615,65995 10,18219	9,66265,38252,6309 14,63242,3836	9,71425,26115 18,55894	22:48
39	46004,48247,59190 15,49600,24662	51812,93581 22,14077	1 12625,84214 10,18746	9,66280,01495,0145 14,62617,2990	9,71443,82009 18,55436	23:24
40	46019,97847,83852 15,49460,06174	51835,07658 22,14478	1 12636,02960 10,19274	9,66294,64112,3135 14,61992,6353	9,71462,37445 18,54980	24: 0
41	46035,47307,90026 15,49319,82968	51857,22136 22,14879	1 12646,22234 10,19801	9,66309,26104,9488 14,61368,3921	9,71480,92425 18,54523	24:36
42	46050,96627,72994 15,49179,55041	51879,37015 22,15279	1 12656,42035 10,20330	9,66323,87473,3409 14,60744,5688	9,71499,46948 18,54067	25:12
43	46066,45807,28035 15,49039,22396	51901,52294 22,15682	1 12666,62365 10,20857	9,66338,48217,9097 14,60121,1651	9,71518,01015 18,53612	25:48
44	46081,94846,50431 15,48898,85031	51923,67976 22,16082	1 12676,83222 10,21386	9,66353,08339,0748 14,59498,1803	9,71536,54627 18,53157	26:24
45	46097,43745,35462 15,48758,42949	51945,84058 22,16485	1 12687,04608 10,21914	9,66367,67837,2551 14,58875,6141	9,71555,07784 18,52702	27: 0
46	46112,92503,78411 15,48617,96149	51968,00543 22,16887	1 12697,26522 10,22443	9,66382,26712,8692 14,58253,4662	9,71573,60486 18,52248	27:36
47	46128,41121,74560 15,48477,44631	51990,17430 22,17289	1 12707,48965 10,22972	9,66396,84966,3354 14,57631,7357	9,71592,12734 18,51795	28:12
48	46143,89599,19191 15,48336,88397	52012,34719 22,17692	1 12717,71937 10,23501	9,66411,42598,0711 14,57010,4226	9,71610,64529 18,51341	28:48
49	46159,37936,07588 15,48196,27446	52034,52411 22,18095	1 12727,95438 10,24031	9,66425,99608,4937 14,56389,5262	9,71629,15870 18,50888	29:24
50	46174,86132,35034 15,48055,61779	52056,70506 22,18497	1 12738,19469 10,24560	9,66440,55998,0199 14,55769,0460	9,71647,66758 18,50437	30: 0
51	46190,34187,96813 15,47914,91396	52078,89003 22,18901	1 12748,44029 10,25089	9,66455,11767,0659 14,55148,9818	9,71666,17195 18,49984	30:36
52	46205,82102,88209 15,47774,16298	52101,07904 22,19305	1 12758,69118 10,25620	9,66469,66916,0477 14,54529,3329	9,71684,67179 18,49533	31:12
53	46221,29877,04507 15,47633,36485	52123,27209 22,19708	1 12768,94738 10,26150	9,66484,21445,3806 14,53910,0988	9,71703,16712 18,49081	31:48
54	46236,77510,40992 15,47492,51958	52145,46917 22,20113	1 12779,20888 10,26680	9,66498,75355,4794 14,53291,2794	9,71721,65793 18,48632	32:24
55	46252,25002,92950 15,47351,62717	52167,67030 22,20517	1 12789,47568 10,27211	9,66513,28646,7588 14,52672,8738	9,71740,14425 18,48181	33: 0
56	46267,72354,55667 15,47210,68763	52189,87547 22,20921	1 12799,74779 10,27742	9,66527,81319,6326 14,52054,8820	9,71758,62606 18,47731	33:36
57	46283,19565,24430 15,47069,70095	52212,08468 22,21326	1 12810,02521 10,28272	9,66542,33374,5146 14,51437,3031	9,71777,10337 18,47282	34:12
58	46298,66634,94525 15,46928,66714	52234,29794 22,21732	1 12820,30793 10,28804	9,66556,84811,8177 14,50820,1369	9,71795,57619 18,46834	34:48
59	46314,13563,61239 15,46787,58623	52256,51526 22,22136	1 12830,59597 10,29335	9,66571,35631,9546 14,50203,3829	9,71814,04453 18,46385	35:24
60	46329,60351,19862 15,46646,45818	52278,73662 22,22542	1 12840,88932 10,29867	9,66585,85835,3375 14,49587,0408	9,71832,50838 18,45937	36: 0
61	46345,06997,65680 15,46505,28302	52300,96204 22,22948	1 12851,18799 10,30399	9,66600,35422,3783 14,48971,1099	9,71850,96775 18,45490	36:36
62	46360,53502,93982 15,46364,06076	52323,19152 22,23354	1 12861,49198 10,30930	9,66614,84393,4882 14,48355,5898	9,71869,42265 18,45043	37:12
63	46375,99867,00058 15,46222,79139	52345,42506 22,23760	1 12871,80128 10,31463	9,66629,32749,0780 14,47740,4802	9,71887,87308 18,44596	37:48
64	46391,46089,79197 15,46081,47492	52367,66266 22,24167	1 12882,11591 10,31996	9,66643,80489,5582 14,47125,7806	9,71906,31904 18,44150	38:24
65	46406,92171,26689 15,45940,11135	52389,90433 22,24574	1 12892,43587 10,32528	9,66658,27615,3388 14,46511,4903	9,71924,76054 18,43704	39: 0
66	46422,38111,37824 15,45798,70069	52412,15007 22,24980	1 12902,76115 10,33061	9,66672,74126,8291 14,45897,6094	9,71943,19758 18,43259	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	88837,69625,11038 8,01441,74243	1 93497,79611 82,77290	2 17810,46141 73,53023	9,94859,72878,5026 3,91812,7574	10,28667,60229 18,58187	40:12
66	88829,68183,36795 8,01712,33312	1 93415,02321 82,71704	2 17736,93118 73,47396	9,94855,81065,7452 3,91980,4149	10,28649,02042 18,57727	39:36
65	88821,66471,03483 8,01982,89938	1 93332,30617 82,66124	2 17663,45722 73,41778	9,94851,89085,3303 3,92148,1025	10,28630,44315 18,57269	39: 0
64	88813,64488,13545 8,02253,44122	1 93249,64493 82,60550	2 17590,03944 73,36163	9,94847,96937,2278 3,92315,8206	10,28611,87046 18,56809	38:24
63	88805,62234,69423 8,02523,95861	1 93167,03943 82,54981	2 17516,67781 73,30557	9,94844,04621,4072 3,92483,5689	10,28593,30237 18,56352	37:48
62	88797,59710,73562 8,02794,45156	1 93084,48962 82,49420	2 17443,37224 73,24955	9,94840,12137,8383 3,92651,3474	10,28574,73885 18,55894	37:12
61	88789,56916,28406 8,03064,92005	1 93001,99542 82,43863	2 17370,12269 73,19360	9,94836,19486,4909 3,92819,1565	10,28556,17991 18,55436	36:36
60	88781,53851,36401 8,03335,36408	1 92919,55679 82,38314	2 17296,92909 73,13771	9,94832,26667,3344 3,92986,9957	10,28537,62555 18,54980	36: 0
59	88773,50515,99993 8,03605,78364	1 92837,17365 82,32771	2 17223,79138 73,08189	9,94828,33680,3387 3,93154,8655	10,28519,07575 18,54523	35:24
58	88765,46910,21629 8,03876,17873	1 92754,84594 82,27233	2 17150,70949 73,02611	9,94824,40525,4732 3,93322,7655	10,28500,53052 18,54067	34:48
57	88757,43034,03756 8,04146,54931	1 92672,57361 82,21701	2 17077,68338 72,97040	9,94820,47202,7077 3,93490,6961	10,28481,98985 18,53612	34:12
56	88749,38887,48825 8,04416,89542	1 92590,35660 82,16177	2 17004,71298 72,91476	9,94816,53712,0116 3,93658,6570	10,28463,45373 18,53157	33:36
55	88741,34470,59283 8,04687,21701	1 92508,19483 82,10657	2 16931,79822 72,85917	9,94812,60053,3546 3,93826,6484	10,28444,92216 18,52702	33: 0
54	88733,29783,37582 8,04957,51409	1 92426,08826 82,05144	2 16858,93905 72,80365	9,94808,66226,7062 3,93994,6703	10,28426,39514 18,52248	32:24
53	88725,24825,86173 8,05227,78665	1 92344,03682 81,99636	2 16786,13540 72,74818	9,94804,72232,0359 3,94162,7226	10,28407,87266 18,51795	31:48
52	88717,19598,07508 8,05498,03468	1 92262,04046 81,94136	2 16713,38722 72,69277	9,94800,78069,3133 3,94330,8055	10,28389,35471 18,51341	31:12
51	88709,14100,04040 8,05768,25818	1 92180,09910 81,88640	2 16640,69445 72,63743	9,94796,83738,5078 3,94498,9189	10,28370,84130 18,50888	30:36
50	88701,08331,78222 8,06038,45713	1 92098,21270 81,83152	2 16568,05702 72,58214	9,94792,89239,5889 3,94667,0628	10,28352,33242 18,50437	30: 0
49	88693,02293,32509 8,06308,63153	1 92016,38118 81,77668	2 16495,47488 72,52692	9,94788,94572,5261 3,94835,2373	10,28333,82805 18,49984	29:24
48	88684,95984,69356 8,06578,78137	1 91934,60450 81,72192	2 16422,94796 72,47175	9,94784,99737,2888 3,95003,4424	10,28315,32821 18,49533	28:48
47	88676,89405,91219 8,06848,90663	1 91852,88258 81,66720	2 16350,47621 72,41665	9,94781,04733,8464 3,95171,6781	10,28296,83288 18,49081	28:12
46	88668,82557,00556 8,07119,00731	1 91771,21538 81,61255	2 16278,05956 72,36160	9,94777,09562,1683 3,95339,9444	10,28278,34207 18,48632	27:36
45	88660,75437,99825 8,07389,08342	1 91689,60283 81,55797	2 16205,69796 72,30661	9,94773,14222,2239 3,95508,2413	10,28259,85575 18,48181	27: 0
44	88652,68048,91483 8,07659,13493	1 91608,04486 81,50343	2 16133,39135 72,25169	9,94769,18713,9826 3,95676,5689	10,28241,37394 18,47731	26:24
43	88644,60389,77990 8,07929,16183	1 91526,54143 81,44896	2 16061,13966 72,19681	9,94765,23037,4137 3,95844,9271	10,28222,89663 18,47282	25:48
42	88636,52460,61807 8,08199,16412	1 91445,09247 81,39455	2 15988,94285 72,14201	9,94761,27192,4866 3,96013,3161	10,28204,42381 18,46834	25:12
41	88628,44261,45395 8,08469,14180	1 91363,69792 81,34019	2 15916,80084 72,08727	9,94757,31179,1705 3,96181,7358	10,28185,95547 18,46385	24:36
40	88620,35792,31215 8,08739,09485	1 91282,35773 81,28591	2 15844,71357 72,03257	9,94753,34997,4347 3,96350,1862	10,28167,49162 18,45937	24: 0
39	88612,27053,21730 8,09009,02326	1 91201,07182 81,23167	2 15772,68100 71,97794	9,94749,38647,2485 3,96518,6673	10,28149,03225 18,45490	23:24
38	88604,18044,19404 8,09278,92702	1 91119,84015 81,17749	2 15700,70306 71,92337	9,94745,42128,5812 3,96687,1793	10,28130,57735 18,45043	22:48
37	88596,08765,26702 8,09548,80614	1 91038,66266 81,12338	2 15628,77969 71,86886	9,94741,45441,4019 3,96855,7220	10,28112,12692 18,44596	22:12
36	88587,99216,46088 8,09818,66060	1 90957,53928 81,06933	2 15556,91083 71,81441	9,94737,48585,6799 3,97024,2954	10,28093,68096 18,44150	21:36
35	88579,89397,80028 8,10088,49038	1 90876,46995 81,01533	2 15485,09642 71,76001	9,94733,51561,3845 3,97192,8999	10,28075,23946 18,43704	21: 0
34	88571,79309,30990 8,10358,29549	1 90795,45462 80,96139	2 15413,33641 71,70567	9,94729,54368,4846 3,97361,5349	10,28056,80242 18,43259	20:24

GRAD. 62.

27. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	46437,83910,07893	52434,39987	1 12913,09176	9,66687,20024,4385	9,71961,63017	40:12
	15,45657,24295	22,25388	10,33594	14,45284,1368	18,42815	
68	46453,29567,32188	52456,65375	1 12923,42770	9,66701,65308,5753	9,71980,05832	40:48
	15,45515,73811	22,25796	10,34127	14,44671,0726	18,42370	
69	46468,75083,05999	52478,91171	1 12933,76897	9,66716,09979,6479	9,71998,48202	41:24
	15,45374,18621	22,26203	10,34661	14,44058,4161	18,41926	
70	46484,20457,24620	52501,17374	1 12944,11558	9,66730,54038,0640	9,72016,90128	42: 0
	15,45232,58722	22,26611	10,35194	14,43446,1667	18,41482	
71	46499,65689,83342	52523,43985	1 12954,46752	9,66744,97484,2307	9,72035,31610	42:36
	15,45090,94116	22,27019	10,35729	14,42834,3244	18,41040	
72	46515,10780,77458	52545,71004	1 12964,82481	9,66759,40318,5551	9,72053,72650	43:12
	15,44949,24805	22,27428	10,36262	14,42222,8884	18,40597	
73	46530,55730,02263	52567,98432	1 12975,18743	9,66773,82541,4435	9,72072,13247	43:48
	15,44807,50786	22,27837	10,36797	14,41611,8583	18,40154	
74	46546,00537,53049	52590,26269	1 12985,55540	9,66788,24153,3018	9,72090,53401	44:24
	15,44665,72062	22,28246	10,37332	14,41001,2338	18,39713	
75	46561,45203,25111	52612,54515	1 12995,92872	9,66802,65154,5356	9,72108,93114	45: 0
	15,44523,88633	22,28655	10,37866	14,40391,0144	18,39272	
76	46576,89727,13744	52634,83170	1 13006,30738	9,66817,05545,5500	9,72127,32386	45:36
	15,44382,00499	22,29064	10,38401	14,39781,1995	18,38831	
77	46592,34109,14243	52657,12234	1 13016,69139	9,66831,45326,7495	9,72145,71217	46:12
	15,44240,07660	22,29475	10,38937	14,39171,7890	18,38390	
78	46607,78349,21903	52679,41709	1 13027,08076	9,66845,84498,5385	9,72164,09607	46:48
	15,44098,10117	22,29884	10,39472	14,38562,7821	18,37951	
79	46623,22447,32020	52701,71593	1 13037,47548	9,66860,23061,3206	9,72182,47558	47:24
	15,43956,07871	22,30295	10,40007	14,37954,1786	18,37510	
80	46638,66403,39891	52724,01888	1 13047,87555	9,66874,61015,4992	9,72200,85068	48: 0
	15,43814,00922	22,30705	10,40543	14,37345,9779	18,37072	
81	46654,10217,40813	52746,32593	1 13058,28098	9,66888,98361,4771	9,72219,22140	48:36
	15,43671,89269	22,31115	10,41079	14,36738,1798	18,36633	
82	46669,53889,30082	52768,63708	1 13068,69177	9,66903,35099,6569	9,72237,58773	49:12
	15,43529,72915	22,31527	10,41616	14,36130,7836	18,36195	
83	46684,97419,02997	52790,95235	1 13079,10793	9,66917,71230,4405	9,72255,94968	49:48
	15,43387,51858	22,31938	10,42152	14,35523,7890	18,35757	
84	46700,40806,54855	52813,27173	1 13089,52945	9,66932,06754,2295	9,72274,30725	50:24
	15,43245,26101	22,32350	10,42689	14,34917,1955	18,35319	
85	46715,84051,80956	52835,59523	1 13099,95634	9,66946,41671,4250	9,72292,66044	51: 0
	15,43102,95642	22,32761	10,43225	14,34311,0028	18,34882	
86	46731,27154,76598	52857,92284	1 13110,38859	9,66960,75982,4278	9,72311,00926	51:36
	15,42960,60483	22,33173	10,43763	14,33705,2103	18,34446	
87	46746,70115,37081	52880,25457	1 13120,82622	9,66975,09687,6381	9,72329,35372	52:12
	15,42818,20623	22,33586	10,44299	14,33099,8177	18,34010	
88	46762,12933,57704	52902,59043	1 13131,26921	9,66989,42787,4558	9,72347,69382	52:48
	15,42675,76064	22,33998	10,44838	14,32494,8245	18,33574	
89	46777,55609,33768	52924,93041	1 13141,71759	9,67003,75282,2803	9,72366,02956	53:24
	15,42533,26805	22,34411	10,45375	14,31890,2301	18,33139	
90	46792,98142,60573	52947,27452	1 13152,17134	9,67018,07172,5104	9,72384,36095	54: 0
	15,42390,72849	22,34824	10,45913	14,31286,0345	18,32705	
91	46808,40533,33422	52969,62276	1 13162,63047	9,67032,38458,5449	9,72402,68800	54:36
	15,42248,14193	22,35237	10,46451	14,30682,2369	18,32269	
92	46823,82781,47615	52991,97513	1 13173,09498	9,67046,69140,7818	9,72421,01069	55:12
	15,42105,50839	22,35650	10,46990	14,30078,8370	18,31836	
93	46839,24886,98454	53014,33163	1 13183,56488	9,67060,99219,6188	9,72439,32905	55:48
	15,41962,82788	22,36065	10,47528	14,29475,8343	18,31402	
94	46854,66849,81242	53036,69228	1 13194,04016	9,67075,28695,4531	9,72457,64307	56:24
	15,41820,10040	22,36478	10,48067	14,28873,2284	18,30969	
95	46870,08669,91282	53059,05706	1 13204,52083	9,67089,57568,6815	9,72475,95276	57: 0
	15,41677,32595	22,36893	10,48606	14,28271,0191	18,30537	
96	46885,50347,23877	53081,42599	1 13215,00689	9,67103,85839,7006	9,72494,25813	57:36
	15,41534,50454	22,37307	10,49145	14,27669,2055	18,30104	
97	46900,91881,74331	53103,79906	1 13225,49834	9,67118,13508,9061	9,72512,55917	58:12
	15,41391,63617	22,37722	10,49685	14,27067,7877	18,29673	
98	46916,33273,37948	53126,17628	1 13235,99519	9,67132,40576,6938	9,72530,85590	58:48
	15,41248,72085	22,38136	10,50224	14,26466,7648	18,29241	
99	46931,74522,10033	53148,55764	1 13246,49743	9,67146,67043,4586	9,72549,14831	59:24
	15,41105,75858	22,38553	10,50764	14,25866,1367	18,28810	
100	46947,15627,85891	53170,94317	1 13257,00507	9,67160,92909,5953	9,72567,43641	60: 0
	15,40962,74936	22,38967	10,51304	14,25265,9028	18,28379	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	88563,68951,01441 8,10628,07592	1 90714,49323 80,90750	2 15341,63074 71,65140	9,94725,57006,9497 3,97530,2011	10,28038,36983 18,42815	19:48
32	88555,58322,93849 8,10897,83165	1 90633,58573 80,85369	2 15269,97934 71,59717	9,94721,59476,7486 3,97698,8979	10,28019,94168 18,42370	19:12
31	88547,47425,10684 8,11167,56268	1 90552,73204 80,79993	2 15198,38217 71,54302	9,94717,61777,8507 3,97867,6258	10,28001,51798 18,41926	18:36
30	88539,36257,54416 8,11437,26900	1 90471,93211 80,74622	2 15126,83915 71,48892	9,94713,63910,2249 3,98036,3845	10,27983,09872 18,41482	18: 0
29	88531,24820,27516 8,11706,95061	1 90391,18589 80,69258	2 15055,35023 71,43487	9,94709,65873,8404 3,98205,1742	10,27964,68390 18,41040	17:24
28	88523,13113,32455 8,11976,60748	1 90310,49331 80,63899	2 14983,91536 71,38088	9,94705,67668,6662 3,98373,9948	10,27946,27350 18,40597	16:48
27	88515,01136,71707 8,12246,23963	1 90229,85432 80,58546	2 14912,53448 71,32696	9,94701,69294,6714 3,98542,8464	10,27927,86753 18,40154	16:12
26	88506,88890,47744 8,12515,84702	1 90149,26886 80,53199	2 14841,20752 71,27309	9,94697,70751,8250 3,98711,7290	10,27909,46599 18,39713	15:36
25	88498,76374,63042 8,12785,42968	1 90068,73687 80,47858	2 14769,93443 71,21928	9,94693,72040,0960 3,98880,6427	10,27891,06886 18,39272	15: 0
24	88490,63589,20074 8,13054,98756	1 89988,25829 80,42522	2 14698,71515 71,16552	9,94689,73159,4533 3,99049,5872	10,27872,67614 18,38831	14:24
23	88482,50534,21318 8,13324,52070	1 89907,83307 80,37193	2 14627,54963 71,11183	9,94685,74109,8661 3,99218,5630	10,27854,28783 18,38390	13:48
22	88474,37209,69248 8,13594,02904	1 89827,46114 80,31869	2 14556,43780 71,05819	9,94681,74891,3031 3,99387,5697	10,27835,90393 18,37951	13:12
21	88466,23615,66344 8,13863,51260	1 89747,14245 80,26551	2 14485,37961 71,00460	9,94677,75503,7334 3,99556,6076	10,27817,52442 18,37510	12:36
20	88458,09752,15084 8,14132,97138	1 89666,87694 80,21238	2 14414,37501 70,95109	9,94673,75947,1258 3,99725,6765	10,27799,14932 18,37072	12: 0
19	88449,95619,17946 8,14402,40535	1 89586,66456 80,15932	2 14343,42392 70,89762	9,94669,76221,4493 3,99894,7766	10,27780,77860 18,36633	11:24
18	88441,81216,77411 8,14671,81452	1 89506,50524 80,10631	2 14272,52630 70,84421	9,94665,76326,6727 4,00063,9078	10,27762,41227 18,36195	10:48
17	88433,66544,95959 8,14941,19887	1 89426,39893 80,05336	2 14201,68209 70,79086	9,94661,76262,7649 4,00233,0702	10,27744,05032 18,35757	10:12
16	88425,51603,76072 8,15210,55839	1 89346,34557 80,00047	2 14130,89123 70,73756	9,94657,76029,6947 4,00402,2637	10,27725,69275 18,35319	9:36
15	88417,36393,20233 8,15479,89308	1 89266,34510 79,94763	2 14060,15367 70,68433	9,94653,75627,4310 4,00571,4886	10,27707,33956 18,34882	9: 0
14	88409,20913,30925 8,15749,20294	1 89186,39747 79,89485	2 13989,46934 70,63115	9,94649,75055,9424 4,00740,7445	10,27688,99074 18,34446	8:24
13	88401,05164,10631 8,16018,48793	1 89106,50262 79,84213	2 13918,83819 70,57803	9,94645,74315,1979 4,00910,0317	10,27670,64628 18,34010	7:48
12	88392,89145,61838 8,16287,74809	1 89026,66049 79,78947	2 13848,26016 70,52496	9,94641,73405,1662 4,01079,3502	10,27652,30618 18,33574	7:12
11	88384,72857,87029 8,16556,98336	1 88946,87102 79,73686	2 13777,73520 70,47195	9,94637,72325,8160 4,01248,7000	10,27633,97044 18,33139	6:36
10	88376,56300,88693 8,16826,19376	1 88867,13416 79,68430	2 13707,26325 70,41900	9,94633,71077,1160 4,01418,0811	10,27615,63905 18,32705	6: 0
9	88368,39474,69317 8,17095,37929	1 88787,44986 79,63182	2 13636,84425 70,36610	9,94629,69659,0349 4,01587,4934	10,27597,31200 18,32269	5:24
8	88360,22379,31388 8,17364,53992	1 88707,81804 79,57937	2 13566,47815 70,31326	9,94625,68071,5415 4,01756,9371	10,27578,98931 18,31836	4:48
7	88352,05014,77396 8,17633,67566	1 88628,23867 79,52700	2 13496,16489 70,26048	9,94621,66314,6044 4,01926,4122	10,27560,67095 18,31402	4:12
6	88343,87381,09830 8,17902,78648	1 88548,71167 79,47467	2 13425,90441 70,20775	9,94617,64388,1922 4,02095,9186	10,27542,35693 18,30969	3:36
5	88335,69478,31182 8,18171,87240	1 88469,23700 79,42240	2 13355,69666 70,15509	9,94613,62292,2736 4,02265,4564	10,27524,04724 18,30537	3: 0
4	88327,51306,43942 8,18440,93339	1 88389,81460 79,37020	2 13285,54157 70,10247	9,94609,60026,8172 4,02435,0256	10,27505,74187 18,30104	2:24
3	88319,32865,50603 8,18709,96945	1 88310,44440 79,31803	2 13215,43910 70,04991	9,94605,57591,7916 4,02604,6263	10,27487,44083 18,29673	1:48
2	88311,14155,53658 8,18978,98057	1 88231,12637 79,26594	2 13145,38919 69,99741	9,94601,54987,1653 4,02774,2584	10,27469,14410 18,29241	1:12
1	88302,95176,55601 8,19247,96674	1 88151,86043 79,21390	2 13075,39178 69,94496	9,94597,52212,9069 4,02943,9220	10,27450,85169 18,28810	0:36
0	88294,75928,58927 8,19516,92796	1 88072,64653 79,16190	2 13005,44682 69,89257	9,94593,49268,9849 4,03113,6171	10,27432,56359 18,28379	0: 0

GRAD. 62.

28. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	46947,15627,85891 15,40962,74936	53170,94317 22,38967	1 13257,00507 10,51304	9,67160,92909,5953 14,25265,9028	9,72567,43641 18,28379	0: 0
1	46962,56590,60827 15,40819,69321	53193,33284 22,39384	1 13267,51811 10,51845	9,67175,18175,4981 14,24666,0628	9,72585,72020 18,27950	0:36
2	46977,97410,30148 15,40676,59011	53215,72668 22,39799	1 13278,03656 10,52384	9,67189,42841,5609 14,24066,6162	9,72603,99970 18,27519	1:12
3	46993,38086,89159 15,40533,44009	53238,12467 22,40216	1 13288,56040 10,52926	9,67203,66908,1771 14,23467,5626	9,72622,27489 18,27091	1:48
4	47008,78620,33168 15,40390,24314	53260,52683 22,40632	1 13299,08966 10,53467	9,67217,90375,7397 14,22868,9016	9,72640,54580 18,26661	2:24
5	47024,19010,57482 15,40246,99927	53282,93315 22,41049	1 13309,62433 10,54008	9,67232,13244,6413 14,22270,6327	9,72658,81241 18,26234	3: 0
6	47039,59257,57409 15,40103,70847	53305,34364 22,41466	1 13320,16441 10,54549	9,67246,35515,2740 14,21672,7555	9,72677,07475 18,25805	3:36
7	47054,99361,28256 15,39960,37077	53327,75830 22,41884	1 13330,70990 10,55090	9,67260,57188,0295 14,21075,2696	9,72695,33280 18,25377	4:12
8	47070,39321,65333 15,39816,98614	53350,17714 22,42301	1 13341,26080 10,55633	9,67274,78263,2991 14,20478,1747	9,72713,58657 18,24951	4:48
9	47085,79138,63947 15,39673,55463	53372,60015 22,42718	1 13351,81713 10,56174	9,67288,98741,4738 14,19881,4701	9,72731,83608 18,24524	5:24
10	47101,18812,19410 15,39530,07620	53395,02733 22,43137	1 13362,37887 10,56717	9,67303,18622,9439 14,19285,1557	9,72750,08132 18,24097	6: 0
11	47116,58342,27030 15,39386,55088	53417,45870 22,43555	1 13372,94604 10,57259	9,67317,37908,0996 14,18689,2308	9,72768,32229 18,23672	6:36
12	47131,97728,82118 15,39242,97867	53439,89425 22,43974	1 13383,51863 10,57802	9,67331,56597,3304 14,18093,6952	9,72786,55901 18,23246	7:12
13	47147,36971,79985 15,39099,35957	53462,33399 22,44392	1 13394,09665 10,58345	9,67345,74691,0256 14,17498,5484	9,72804,79147 18,22821	7:48
14	47162,76071,15942 15,38955,69359	53484,77791 22,44811	1 13404,68010 10,58888	9,67359,92189,5740 14,16903,7898	9,72823,01968 18,22396	8:24
15	47178,15026,85301 15,38811,98072	53507,22602 22,45231	1 13415,26898 10,59431	9,67374,09093,3638 14,16309,4194	9,72841,24364 18,21973	9: 0
16	47193,53838,83373 15,38668,22098	53529,67833 22,45651	1 13425,86329 10,59974	9,67388,25402,7832 14,15715,4364	9,72859,46337 18,21548	9:36
17	47208,92507,05471 15,38524,41437	53552,13484 22,46070	1 13436,46303 10,60519	9,67402,41118,2196 14,15121,8406	9,72877,67885 18,21125	10:12
18	47224,31031,46908 15,38380,56090	53574,59554 22,46490	1 13447,06822 10,61062	9,67416,56240,0602 14,14528,6315	9,72895,89010 18,20702	10:48
19	47239,69412,02998 15,38236,66056	53597,06044 22,46911	1 13457,67884 10,61607	9,67430,70768,6917 14,13935,8086	9,72914,09712 18,20280	11:24
20	47255,07648,69054 15,38092,71337	53619,52955 22,47331	1 13468,29491 10,62150	9,67444,84704,5003 14,13343,3717	9,72932,29992 18,19857	12: 0
21	47270,45741,40391 15,37948,71932	53642,00286 22,47752	1 13478,91641 10,62696	9,67458,98047,8720 14,12751,3202	9,72950,49849 18,19436	12:36
22	47285,83690,12323 15,37804,67842	53664,48038 22,48173	1 13489,54337 10,63240	9,67473,10799,1922 14,12159,6538	9,72968,69285 18,19015	13:12
23	47301,21494,80165 15,37660,59068	53686,96211 22,48594	1 13500,17577 10,63786	9,67487,22958,8460 14,11568,3720	9,72986,88300 18,18594	13:48
24	47316,59155,39233 15,37516,45610	53709,44805 22,49016	1 13510,81363 10,64330	9,67501,34527,2180 14,10977,4745	9,73005,06894 18,18173	14:24
25	47331,96671,84843 15,37372,27469	53731,93821 22,49438	1 13521,45693 10,64876	9,67515,45504,6925 14,10386,9609	9,73023,25067 18,17753	15: 0
26	47347,34044,12312 15,37228,04644	53754,43259 22,49860	1 13532,10569 10,65422	9,67529,55891,6534 14,09796,8305	9,73041,42820 18,17334	15:36
27	47362,71272,16956 15,37083,77137	53776,93119 22,50283	1 13542,75991 10,65968	9,67543,65688,4839 14,09207,0833	9,73059,60154 18,16914	16:12
28	47378,08355,94093 15,36939,44947	53799,43402 22,50705	1 13553,41959 10,66514	9,67557,74895,5672 14,08617,7187	9,73077,77068 18,16496	16:48
29	47393,45295,39040 15,36795,08076	53821,94107 22,51128	1 13564,08473 10,67060	9,67571,83513,2859 14,08028,7362	9,73095,93564 18,16077	17:24
30	47408,82090,47116 15,36650,66524	53844,45235 22,51551	1 13574,75533 10,67607	9,67585,91542,0221 14,07440,1354	9,73114,09641 18,15659	18: 0
31	47424,18741,13640 15,36506,20289	53866,96786 22,51974	1 13585,43140 10,68154	9,67599,98982,1575 14,06851,9162	9,73132,25300 18,15242	18:36
32	47439,55247,33929 15,36361,69376	53889,48760 22,52399	1 13596,11294 10,68700	9,67614,05834,0737 14,06264,0779	9,73150,40542 18,14825	19:12
33	47454,91609,03305 15,36217,13782	53912,01159 22,52822	1 13606,79994 10,69248	9,67628,12098,1516 14,05676,6200	9,73168,55367 18,14408	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	88294,75928,58927 8,19516,92796	1 88072,64653 79,16190	2 13005,44682 69,89257	9,94593,49268,9849 4,03113,6171	10,27432,56359 18,28379	60: 0
99	88286,56411,66131 8,19785,86421	1 87993,48463 79,10998	2 12935,55425 69,84024	9,94589,46155,3678 4,03283,3436	10,27414,27980 18,27950	59:24
98	88278,36625,79710 8,20054,77549	1 87914,37465 79,05811	2 12865,71401 69,78796	9,94585,42872,0242 4,03453,1017	10,27396,00030 18,27519	58:48
97	88270,16571,02161 8,20323,66179	1 87835,31654 79,00628	2 12795,92605 69,73574	9,94581,39418,9225 4,03622,8913	10,27377,72511 18,27091	58:12
96	88261,96247,35982 8,20592,52311	1 87756,31026 78,95452	2 12726,19031 69,68357	9,94577,35796,0312 4,03792,7125	10,27359,45420 18,26661	57:36
95	88253,75654,83671 8,20861,35942	1 87677,35574 78,90281	2 12656,50674 69,63146	9,94573,32003,3187 4,03962,5653	10,27341,18759 18,26234	57: 0
94	88245,54793,47729 8,21130,17073	1 87598,45293 78,85117	2 12586,87528 69,57941	9,94569,28040,7534 4,04132,4497	10,27322,92525 18,25805	56:24
93	88237,33663,30656 8,21398,95703	1 87519,60176 78,79956	2 12517,29587 69,52740	9,94565,23908,3037 4,04302,3657	10,27304,66720 18,25377	55:48
92	88229,12264,34953 8,21667,71830	1 87440,80220 78,74802	2 12447,76847 69,47545	9,94561,19605,9380 4,04472,3133	10,27286,41343 18,24951	55:12
91	88220,90596,63123 8,21936,45455	1 87362,05418 78,69654	2 12378,29302 69,42357	9,94557,15133,6247 4,04642,2926	10,27268,16392 18,24524	54:36
90	88212,68660,17668 8,22205,16576	1 87283,35764 78,64511	2 12308,86945 69,37173	9,94553,10491,3321 4,04812,3035	10,27249,91868 18,24097	54: 0
89	88204,46455,01092 8,22473,85193	1 87204,71253 78,59373	2 12239,49772 69,31995	9,94549,05679,0286 4,04982,3463	10,27231,67771 18,23672	53:24
88	88196,23981,15899 8,22742,51303	1 87126,11880 78,54242	2 12170,17777 69,26822	9,94545,00696,6823 4,05152,4206	10,27213,44099 18,23246	52:48
87	88188,01238,64596 8,23011,14908	1 87047,57638 78,49114	2 12100,90955 69,21655	9,94540,95544,2617 4,05322,5268	10,27195,20853 18,22821	52:12
86	88179,78227,49688 8,23279,76006	1 86969,08524 78,43994	2 12031,69300 69,16494	9,94536,90221,7349 4,05492,6646	10,27176,98032 18,22396	51:36
85	88171,54947,73682 8,23548,34595	1 86890,64530 78,38878	2 11962,52806 69,11338	9,94532,84729,0703 4,05662,8343	10,27158,75636 18,21973	51: 0
84	88163,31399,39087 8,23816,90677	1 86812,25652 78,33768	2 11893,41468 69,06187	9,94528,79066,2360 4,05833,0357	10,27140,53663 18,21548	50:24
83	88155,07582,48410 8,24085,44248	1 86733,91884 78,28664	2 11824,35281 69,01042	9,94524,73233,2003 4,06003,2690	10,27122,32115 18,21125	49:48
82	88146,83497,04162 8,24353,95310	1 86655,63220 78,23564	2 11755,34239 68,95902	9,94520,67229,9313 4,06173,5340	10,27104,10990 18,20702	49:12
81	88138,59143,08852 8,24622,43860	1 86577,39656 78,18471	2 11686,38337 68,90767	9,94516,61056,3973 4,06343,8310	10,27085,90288 18,20280	48:36
80	88130,34520,64992 8,24890,89898	1 86499,21185 78,13383	2 11617,47570 68,85639	9,94512,54712,5663 4,06514,1598	10,27067,70008 18,19857	48: 0
79	88122,09629,75094 8,25159,33424	1 86421,07802 78,08300	2 11548,61931 68,80516	9,94508,48198,4065 4,06684,5206	10,27049,50151 18,19436	47:24
78	88113,84470,41670 8,25427,74436	1 86342,99502 78,03222	2 11479,81415 68,75397	9,94504,41513,8859 4,06854,9131	10,27031,30715 18,19015	46:48
77	88105,59042,67234 8,25696,12933	1 86264,96280 77,98151	2 11411,06018 68,70285	9,94500,34658,9728 4,07025,3376	10,27013,11700 18,18594	46:12
76	88097,33346,54301 8,25964,48915	1 86186,98129 77,93084	2 11342,35733 68,65177	9,94496,27633,6352 4,07195,7941	10,26994,93106 18,18173	45:36
75	88089,07382,05386 8,26232,82382	1 86109,05045 77,88023	2 11273,70556 68,60076	9,94492,20437,8411 4,07366,2826	10,26976,74933 18,17753	45: 0
74	88080,81149,23004 8,26501,13332	1 86031,17022 77,82967	2 11205,10480 68,54979	9,94488,13071,5585 4,07536,8031	10,26958,57180 18,17334	44:24
73	88072,54648,09672 8,26769,41763	1 85953,34055 77,77917	2 11136,55501 68,49888	9,94484,05534,7554 4,07707,3554	10,26940,39846 18,16914	43:48
72	88064,27878,67909 8,27037,67677	1 85875,56138 77,72872	2 11068,05613 68,44803	9,94479,97827,4000 4,07877,9399	10,26922,22932 18,16496	43:12
71	88056,00841,00232 8,27305,91070	1 85797,83266 77,67833	2 10999,60810 68,39722	9,94475,89949,4601 4,08048,5565	10,26904,06436 18,16077	42:36
70	88047,73535,09162 8,27574,11944	1 85720,15433 77,62798	2 10931,21088 68,34647	9,94471,81900,9036 4,08219,2050	10,26885,90359 18,15659	42: 0
69	88039,45960,97218 8,27842,30298	1 85642,52635 77,57770	2 10862,86441 68,29577	9,94467,73681,6986 4,08389,8857	10,26867,74700 18,15242	41:24
68	88031,18118,66920 8,28110,46128	1 85564,94865 77,52746	2 10794,56864 68,24513	9,94463,65291,8129 4,08560,5984	10,26849,59458 18,14825	40:48
67	88022,90008,20792 8,28378,59438	1 85487,42119 77,47729	2 10726,32351 68,19455	9,94459,56731,2145 4,08731,3434	10,26831,44633 18,14408	40:12

GRAD. 61.

28. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	47454,91609,03305 15,36217,13782	53912,01159 22,52822	1 13606,79994 10,69248	9,67628,12098,1516 14,05676,6200	9,73168,55367 18,14408	19:48
34	47470,27826,17087 15,36072,53508	53934,53981 22,53246	1 13617,49242 10,69795	9,67642,17774,7716 14,05089,5425	9,73186,69775 18,13992	20:24
35	47485,63898,70595 15,35927,88555	53957,07227 22,53671	1 13628,19037 10,70343	9,67656,22864,3141 14,04502,8446	9,73204,83767 18,13575	21: 0
36	47500,99826,59150 15,35783,18923	53979,60898 22,54095	1 13638,89380 10,70891	9,67670,27367,1587 14,03916,5261	9,73222,97342 18,13161	21:36
37	47516,35609,78073 15,35638,44614	54002,14993 22,54520	1 13649,60271 10,71439	9,67684,31283,6848 14,03330,5866	9,73241,10503 18,12745	22:12
38	47531,71248,22687 15,35493,65627	54024,69513 22,54946	1 13660,31710 10,71988	9,67698,34614,2714 14,02745,0255	9,73259,23248 18,12330	22:48
39	47547,06741,88314 15,35348,81961	54047,24459 22,55371	1 13671,03698 10,72536	9,67712,37359,2969 14,02159,8427	9,73277,35578 18,11917	23:24
40	47562,42090,70275 15,35203,93620	54069,79830 22,55796	1 13681,76234 10,73084	9,67726,39519,1396 14,01575,0376	9,73295,47495 18,11502	24: 0
41	47577,77294,63895 15,35059,00601	54092,35626 22,56223	1 13692,49318 10,73634	9,67740,41094,1772 14,00990,6098	9,73313,58997 18,11089	24:36
42	47593,12353,64496 15,34914,02907	54114,91849 22,56649	1 13703,22952 10,74183	9,67754,42084,7870 14,00406,5589	9,73331,70086 18,10676	25:12
43	47608,47267,67403 15,34769,00536	54137,48498 22,57075	1 13713,97135 10,74732	9,67768,42491,3459 13,99822,8847	9,73349,80762 18,10264	25:48
44	47623,82036,67939 15,34623,93491	54160,05573 22,57502	1 13724,71867 10,75282	9,67782,42314,2306 13,99239,5865	9,73367,91026 18,09851	26:24
45	47639,16660,61430 15,34478,81772	54182,63075 22,57930	1 13735,47149 10,75832	9,67796,41553,8171 13,98656,6640	9,73386,00877 18,09440	27: 0
46	47654,51139,43202 15,34333,65377	54205,21005 22,58356	1 13746,22981 10,76382	9,67810,40210,4811 13,98074,1170	9,73404,10317 18,09028	27:36
47	47669,85473,08579 15,34188,44309	54227,79361 22,58784	1 13756,99363 10,76932	9,67824,38284,5981 13,97491,9448	9,73422,19345 18,08617	28:12
48	47685,19661,52888 15,34043,18567	54250,38145 22,59212	1 13767,76295 10,77483	9,67838,35776,5429 13,96910,1473	9,73440,27962 18,08206	28:48
49	47700,53704,71455 15,33897,88153	54272,97357 22,59639	1 13778,53778 10,78034	9,67852,32686,6902 13,96328,7238	9,73458,36168 18,07797	29:24
50	47715,87602,59608 15,33752,53066	54295,56996 22,60068	1 13789,31812 10,78584	9,67866,29015,4140 13,95747,6742	9,73476,43965 18,07386	30: 0
51	47731,21355,12674 15,33607,13307	54318,17064 22,60497	1 13800,10396 10,79136	9,67880,24763,0882 13,95166,9978	9,73494,51351 18,06978	30:36
52	47746,54962,25981 15,33461,68877	54340,77561 22,60926	1 13810,89532 10,79687	9,67894,19930,0860 13,94586,6944	9,73512,58329 18,06568	31:12
53	47761,88423,94858 15,33316,19774	54363,38487 22,61354	1 13821,69219 10,80239	9,67908,14516,7804 13,94006,7637	9,73530,64897 18,06160	31:48
54	47777,21740,14632 15,33170,66001	54385,99841 22,61784	1 13832,49458 10,80791	9,67922,08523,5441 13,93427,2051	9,73548,71057 18,05751	32:24
55	47792,54910,80633 15,33025,07559	54408,61625 22,62213	1 13843,30249 10,81343	9,67936,01950,7492 13,92848,0182	9,73566,76808 18,05344	33: 0
56	47807,87935,88192 15,32879,44446	54431,23838 22,62644	1 13854,11592 10,81895	9,67949,94798,7674 13,92269,2027	9,73584,82152 18,04937	33:36
57	47823,20815,32638 15,32733,76664	54453,86482 22,63073	1 13864,93487 10,82448	9,67963,87067,9701 13,91690,7584	9,73602,87089 18,04529	34:12
58	47838,53549,09302 15,32588,04212	54476,49555 22,63504	1 13875,75935 10,83001	9,67977,78758,7285 13,91112,6844	9,73620,91618 18,04124	34:48
59	47853,86137,13514 15,32442,27093	54499,13059 22,63935	1 13886,58936 10,83553	9,67991,69871,4129 13,90534,9809	9,73638,95742 18,03717	35:24
60	47869,18579,40607 15,32296,45305	54521,76994 22,64365	1 13897,42489 10,84107	9,68005,60406,3938 13,89957,6470	9,73656,99459 18,03311	36: 0
61	47884,50875,85912 15,32150,58849	54544,41359 22,64797	1 13908,26596 10,84660	9,68019,50364,0408 13,89380,6827	9,73675,02770 18,02906	36:36
62	47899,83026,44761 15,32004,67727	54567,06156 22,65228	1 13919,11256 10,85214	9,68033,39744,7235 13,88804,0873	9,73693,05676 18,02501	37:12
63	47915,15031,12488 15,31858,71937	54589,71384 22,65659	1 13929,96470 10,85768	9,68047,28548,8108 13,88227,8607	9,73711,08177 18,02097	37:48
64	47930,46889,84425 15,31712,71482	54612,37043 22,66092	1 13940,82238 10,86322	9,68061,16776,6715 13,87652,0022	9,73729,10274 18,01692	38:24
65	47945,78602,55907 15,31566,66360	54635,03135 22,66524	1 13951,68560 10,86876	9,68075,04428,6737 13,87076,5117	9,73747,11966 18,01289	39: 0
66	47961,10169,22267 15,31420,56573	54657,69659 22,66956	1 13962,55436 10,87431	9,68088,91505,1854 13,86501,3887	9,73765,13255 18,00885	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	88022,90008,20792 8,28378,59438	1 85487,42119 77,47729	2 10726,32351 68,19455	9,94459,56731,2145 4,08731,3434	10,26831,44633 18,14408	40:12
66	88014,61629,61354 8,28646,70222	1 85409,94390 77,42715	2 10658,12896 68,14400	9,94455,47999,8711 4,08902,1203	10,26813,30225 18,13992	39:36
65	88006,32982,91132 8,28914,78484	1 85332,51675 77,37708	2 10589,98496 68,09352	9,94451,39097,7508 4,09072,9296	10,26795,16233 18,13575	39: 0
64	87998,04068,12648 8,29182,84219	1 85255,13967 77,32706	2 10521,89144 68,04310	9,94447,30024,8212 4,09243,7709	10,26777,02658 18,13161	38:24
63	87989,74885,28429 8,29450,87430	1 85177,81261 77,27710	2 10453,84834 67,99271	9,94443,20781,0503 4,09414,6445	10,26758,89497 18,12745	37:48
62	87981,45434,40999 8,29718,88113	1 85100,53551 77,22717	2 10385,85563 67,94239	9,94439,11366,4058 4,09585,5502	10,26740,76752 18,12330	37:12
61	87973,15715,52886 8,29986,86269	1 85023,30834 77,17732	2 10317,91324 67,89212	9,94435,01780,8556 4,09756,4884	10,26722,64422 18,11917	36:36
60	87964,85728,66617 8,30254,81898	1 84946,13102 77,12751	2 10250,02112 67,84191	9,94430,92024,3672 4,09927,4586	10,26704,52505 18,11502	36: 0
59	87956,55473,84719 8,30522,74995	1 84869,00351 77,07775	2 10182,17921 67,79173	9,94426,82096,9086 4,10098,4611	10,26686,41003 18,11089	35:24
58	87948,24951,09724 8,30790,65565	1 84791,92576 77,02805	2 10114,38748 67,74163	9,94422,71998,4475 4,10269,4960	10,26668,29914 18,10676	34:48
57	87939,94160,44159 8,31058,53603	1 84714,89771 76,97840	2 10046,64585 67,69156	9,94418,61728,9515 4,10440,5633	10,26650,19238 18,10264	34:12
56	87931,63101,90556 8,31326,39109	1 84637,91931 76,92881	2 09978,95429 67,64155	9,94414,51288,3882 4,10611,6627	10,26632,08974 18,09851	33:36
55	87923,31775,51447 8,31594,22083	1 84560,99050 76,87926	2 09911,31274 67,59160	9,94410,40676,7255 4,10782,7946	10,26613,99123 18,09440	33: 0
54	87915,00181,29364 8,31862,02524	1 84484,11124 76,82976	2 09843,72114 67,54170	9,94406,29893,9309 4,10953,9589	10,26595,89683 18,09028	32:24
53	87906,68319,26840 8,32129,80432	1 84407,28148 76,78033	2 09776,17944 67,49184	9,94402,18939,9720 4,11125,1555	10,26577,80655 18,08617	31:48
52	87898,36189,46408 8,32397,55803	1 84330,50115 76,73094	2 09708,68760 67,44205	9,94398,07814,8165 4,11296,3846	10,26559,72038 18,08206	31:12
51	87890,03791,90605 8,32665,28640	1 84253,77021 76,68161	2 09641,24555 67,39230	9,94393,96518,4319 4,11467,6460	10,26541,63832 18,07797	30:36
50	87881,71126,61965 8,32932,98939	1 84177,08860 76,63232	2 09573,85325 67,34260	9,94389,85050,7859 4,11638,9401	10,26523,56035 18,07386	30: 0
49	87873,38193,63026 8,33200,66703	1 84100,45628 76,58309	2 09506,51065 67,29297	9,94385,73411,8458 4,11810,2665	10,26505,48649 18,06978	29:24
48	87865,04992,96323 8,33468,31928	1 84023,87319 76,53391	2 09439,21768 67,24337	9,94381,61601,5793 4,11981,6254	10,26487,41671 18,06568	28:48
47	87856,71524,64395 8,33735,94613	1 83947,33928 76,48479	2 09371,97431 67,19383	9,94377,49619,9539 4,12153,0168	10,26469,35103 18,06160	28:12
46	87848,37788,69782 8,34003,54759	1 83870,85449 76,43571	2 09304,78048 67,14435	9,94373,37466,9371 4,12324,4408	10,26451,28943 18,05751	27:36
45	87840,03785,15023 8,34271,12365	1 83794,41878 76,38669	2 09237,63613 67,09491	9,94369,25142,4963 4,12495,8973	10,26433,23192 18,05344	27: 0
44	87831,69514,02658 8,34538,67429	1 83718,03209 76,33772	2 09170,54122 67,04553	9,94365,12646,5990 4,12667,3865	10,26415,17848 18,04937	26:24
43	87823,34975,35229 8,34806,19952	1 83641,69437 76,28880	2 09103,49569 66,99619	9,94360,99979,2125 4,12838,9081	10,26397,12911 18,04529	25:48
42	87815,00169,15277 8,35073,69930	1 83565,40557 76,23993	2 09036,49950 66,94692	9,94356,87140,3044 4,13010,4624	10,26379,08382 18,04124	25:12
41	87806,65095,45347 8,35341,17366	1 83489,16564 76,19112	2 08969,55258 66,89769	9,94352,74129,8420 4,13182,0494	10,26361,04258 18,03717	24:36
40	87798,29754,27981 8,35608,62257	1 83412,97452 76,14235	2 08902,65489 66,84850	9,94348,60947,7926 4,13353,6690	10,26343,00541 18,03311	24: 0
39	87789,94145,65724 8,35876,04602	1 83336,83217 76,09364	2 08835,80639 66,79939	9,94344,47594,1236 4,13525,3212	10,26324,97230 18,02906	23:24
38	87781,58269,61122 8,36143,44402	1 83260,73853 76,04498	2 08769,00700 66,75030	9,94340,34068,8024 4,13697,0062	10,26306,94324 18,02501	22:48
37	87773,22126,16720 8,36410,81653	1 83184,69355 75,99637	2 08702,25670 66,70128	9,94336,20371,7962 4,13868,7238	10,26288,91823 18,02097	22:12
36	87764,85715,35067 8,36678,16358	1 83108,69718 75,94781	2 08635,55542 66,65231	9,94332,06503,0724 4,14040,4743	10,26270,89726 18,01692	21:36
35	87756,49037,18709 8,36945,48513	1 83032,74937 75,89930	2 08568,90311 66,60339	9,94327,92462,5981 4,14212,2574	10,26252,88034 18,01289	21: 0
34	87748,12091,70196 8,37212,78119	1 82956,85007 75,85084	2 08502,29972 66,55451	9,94323,78250,3407 4,14384,0733	10,26234,86745 18,00885	20:24

GRAD. 61.

28. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	47976,41589,78840	54680,36615	1 13973,42867	9,68102,78006,5741	9,73783,14140	40:12
	15,31274,42121	22,67389	10,87985	13,85926,6327	18,00483	
68	47991,72864,20961	54703,04004	1 13984,30852	9,68116,63933,2068	9,73801,14623	40:48
	15,31128,23004	22,67822	10,88541	13,85352,2435	18,00080	
69	48007,03992,43965	54725,71826	1 13995,19393	9,68130,49285,4503	9,73819,14703	41:24
	15,30981,99224	22,68256	10,89096	13,84778,2206	17,99678	
70	48022,34974,43189	54748,40082	1 14006,08489	9,68144,34063,6709	9,73837,14381	42: 0
	15,30835,70780	22,68688	10,89651	13,84204,5637	17,99276	
71	48037,65810,13969	54771,08770	1 14016,98140	9,68158,18268,2346	9,73855,13657	42:36
	15,30689,37672	22,69123	10,90207	13,83631,2723	17,98875	
72	48052,96499,51641	54793,77893	1 14027,88347	9,68172,01899,5069	9,73873,12532	43:12
	15,30542,99902	22,69557	10,90763	13,83058,3460	17,98474	
73	48068,27042,51543	54816,47450	1 14038,79110	9,68185,84957,8529	9,73891,11006	43:48
	15,30396,57469	22,69991	10,91319	13,82485,7847	17,98073	
74	48083,57439,09012	54839,17441	1 14049,70429	9,68199,67443,6376	9,73909,09079	44:24
	15,30250,10376	22,70425	10,91876	13,81913,5876	17,97674	
75	48098,87689,19388	54861,87866	1 14060,62305	9,68213,49357,2252	9,73927,06753	45: 0
	15,30103,58619	22,70861	10,92432	13,81341,7546	17,97274	
76	48114,17792,78007	54884,58727	1 14071,54737	9,68227,30698,9798	9,73945,04027	45:36
	15,29957,02203	22,71295	10,92989	13,80770,2854	17,96874	
77	48129,47749,80210	54907,30022	1 14082,47726	9,68241,11469,2652	9,73963,00901	46:12
	15,29810,41126	22,71731	10,93546	13,80199,1792	17,96475	
78	48144,77560,21336	54930,01753	1 14093,41272	9,68254,91668,4444	9,73980,97376	46:48
	15,29663,75388	22,72167	10,94103	13,79628,4361	17,96077	
79	48160,07223,96724	54952,73920	1 14104,35375	9,68268,71296,8805	9,73998,93453	47:24
	15,29517,04991	22,72602	10,94661	13,79058,0554	17,95679	
80	48175,36741,01715	54975,46522	1 14115,30036	9,68282,50354,9359	9,74016,89132	48: 0
	15,29370,29936	22,73038	10,95218	13,78488,0368	17,95281	
81	48190,66111,31651	54998,19560	1 14126,25254	9,68296,28842,9727	9,74034,84413	48:36
	15,29223,50220	22,73475	10,95777	13,77918,3800	17,94883	
82	48205,95334,81871	55020,93035	1 14137,21031	9,68310,06761,3527	9,74052,79296	49:12
	15,29076,65848	22,73912	10,96335	13,77349,0845	17,94487	
83	48221,24411,47719	55043,66947	1 14148,17366	9,68323,84110,4372	9,74070,73783	49:48
	15,28929,76816	22,74349	10,96893	13,76780,1501	17,94090	
84	48236,53341,24535	55066,41296	1 14159,14259	9,68337,60890,5873	9,74088,67873	50:24
	15,28782,83128	22,74785	10,97451	13,76211,5762	17,93694	
85	48251,82124,07663	55089,16081	1 14170,11710	9,68351,37102,1635	9,74106,61567	51: 0
	15,28635,84783	22,75224	10,98011	13,75643,3625	17,93298	
86	48267,10759,92446	55111,91305	1 14181,09721	9,68365,12745,5260	9,74124,54865	51:36
	15,28488,81781	22,75661	10,98570	13,75075,5088	17,92903	
87	48282,39248,74227	55134,66966	1 14192,08291	9,68378,87821,0348	9,74142,47768	52:12
	15,28341,74124	22,76099	10,99129	13,74508,0145	17,92508	
88	48297,67590,48351	55157,43065	1 14203,07420	9,68392,62329,0493	9,74160,40276	52:48
	15,28194,61810	22,76537	10,99688	13,73940,8793	17,92113	
89	48312,95785,10161	55180,19602	1 14214,07108	9,68406,36269,9286	9,74178,32389	53:24
	15,28047,44841	22,76976	11,00248	13,73374,1028	17,91719	
90	48328,23832,55002	55202,96578	1 14225,07356	9,68420,09644,0314	9,74196,24108	54: 0
	15,27900,23219	22,77415	11,00809	13,72807,6846	17,91326	
91	48343,51732,78221	55225,73993	1 14236,08165	9,68433,82451,7160	9,74214,15434	54:36
	15,27752,96940	22,77853	11,01368	13,72241,6246	17,90931	
92	48358,79485,75161	55248,51846	1 14247,09533	9,68447,54693,3406	9,74232,06365	55:12
	15,27605,66010	22,78293	11,01930	13,71675,9220	17,90539	
93	48374,07091,41171	55271,30139	1 14258,11463	9,68461,26369,2626	9,74249,96904	55:48
	15,27458,30425	22,78733	11,02489	13,71110,5766	17,90146	
94	48389,34549,71596	55294,08872	1 14269,13952	9,68474,97479,8392	9,74267,87050	56:24
	15,27310,90187	22,79173	11,03051	13,70545,5882	17,89754	
95	48404,61860,61783	55316,88045	1 14280,17003	9,68488,68025,4274	9,74285,76804	57: 0
	15,27163,45298	22,79612	11,03612	13,69980,9563	17,89362	
96	48419,89024,07081	55339,67657	1 14291,20615	9,68502,38006,3837	9,74303,66166	57:36
	15,27015,95755	22,80053	11,04173	13,69416,6804	17,88971	
97	48435,16040,02836	55362,47710	1 14302,24788	9,68516,07423,0641	9,74321,55137	58:12
	15,26868,41562	22,80494	11,04735	13,68852,7603	17,88579	
98	48450,42908,44398	55385,28204	1 14313,29523	9,68529,76275,8244	9,74339,43716	58:48
	15,26720,82717	22,80935	11,05297	13,68289,1955	17,88189	
99	48465,69629,27115	55408,09139	1 14324,34820	9,68543,44565,0199	9,74357,31905	59:24
	15,26573,19222	22,81376	11,05859	13,67725,9858	17,87799	
100	48480,96202,46337	55430,90515	1 14335,40679	9,68557,12291,0057	9,74375,19704	60: 0
	15,26425,51076	22,81817	11,06421	13,67163,1307	17,87408	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	87739,74878,92077 8,37480,05176	1 82880,99923 75,80244	2 08435,74521 66,50570	9,94319,63866,2674 4,14555,9220	10,26216,85860 18,00483	19:48
32	87731,37398,86901 8,37747,29680	1 82805,19679 75,75408	2 08369,23951 66,45692	9,94315,49310,3454 4,14727,8035	10,26198,85377 18,00080	19:12
31	87722,99651,57221 8,38014,51632	1 82729,44271 75,70578	2 08302,78259 66,40821	9,94311,34582,5419 4,14899,7179	10,26180,85297 17,99678	18:36
30	87714,61637,05589 8,38281,71033	1 82653,73693 75,65752	2 08236,37438 66,35954	9,94307,19682,8240 4,15071,6651	10,26162,85619 17,99276	18: 0
29	87706,23355,34556 8,38548,87879	1 82578,07941 75,60933	2 08170,01484 66,31092	9,94303,04611,1589 4,15243,6452	10,26144,86343 17,98875	17:24
28	87697,84806,46677 8,38816,02172	1 82502,47008 75,56117	2 08103,70392 66,26235	9,94298,89367,5137 4,15415,6581	10,26126,87468 17,98474	16:48
27	87689,45990,44505 8,39083,13908	1 82426,90891 75,51307	2 08037,44157 66,21383	9,94294,73951,8556 4,15587,7040	10,26108,88994 17,98073	16:12
26	87681,06907,30597 8,39350,23089	1 82351,39584 75,46502	2 07971,22774 66,16537	9,94290,58364,1516 4,15759,7828	10,26090,90921 17,97674	15:36
25	87672,67557,07508 8,39617,29714	1 82275,93082 75,41701	2 07905,06237 66,11696	9,94286,42604,3688 4,15931,8946	10,26072,93247 17,97274	15: 0
24	87664,27939,77794 8,39884,33780	1 82200,51381 75,36907	2 07838,94541 66,06858	9,94282,26672,4742 4,16104,0393	10,26054,95973 17,96874	14:24
23	87655,88055,44014 8,40151,35288	1 82125,14474 75,32117	2 07772,87683 66,02027	9,94278,10568,4349 4,16276,2170	10,26036,99099 17,96475	13:48
22	87647,47904,08726 8,40418,34237	1 82049,82357 75,27332	2 07706,85656 65,97201	9,94273,94292,2179 4,16448,4277	10,26019,02624 17,96077	13:12
21	87639,07485,74489 8,40685,30625	1 81974,55025 75,22552	2 07640,88455 65,92379	9,94269,77843,7902 4,16620,6715	10,26001,06547 17,95679	12:36
20	87630,66800,43864 8,40952,24454	1 81899,32473 75,17777	2 07574,96076 65,87562	9,94265,61223,1187 4,16792,9483	10,25983,10868 17,95281	12: 0
19	87622,25848,19410 8,41219,15720	1 81824,14696 75,13008	2 07509,08514 65,82750	9,94261,44430,1704 4,16965,2581	10,25965,15587 17,94883	11:24
18	87613,84629,03690 8,41486,04423	1 81749,01688 75,08242	2 07443,25764 65,77944	9,94257,27464,9123 4,17137,6011	10,25947,20704 17,94487	10:48
17	87605,43142,99267 8,41752,90564	1 81673,93446 75,03482	2 07377,47820 65,73143	9,94253,10327,3112 4,17309,9772	10,25929,26217 17,94090	10:12
16	87597,01390,08703 8,42019,74141	1 81598,89964 74,98728	2 07311,74677 65,68345	9,94248,93017,3340 4,17482,3864	10,25911,32127 17,93694	9:36
15	87588,59370,34562 8,42286,55151	1 81523,91236 74,93977	2 07246,06332 65,63554	9,94244,75534,9476 4,17654,8288	10,25893,38433 17,93298	9: 0
14	87580,17083,79411 8,42553,33598	1 81448,97259 74,89232	2 07180,42778 65,58767	9,94240,57880,1188 4,17827,3043	10,25875,45135 17,92903	8:24
13	87571,74530,45813 8,42820,09476	1 81374,08027 74,84493	2 07114,84011 65,53986	9,94236,40052,8145 4,17999,8130	10,25857,52232 17,92508	7:48
12	87563,31710,36337 8,43086,82788	1 81299,23534 74,79757	2 07049,30025 65,49208	9,94232,22053,0015 4,18172,3549	10,25839,59724 17,92113	7:12
11	87554,88623,53549 8,43353,53531	1 81224,43777 74,75027	2 06983,80817 65,44436	9,94228,03880,6466 4,18344,9300	10,25821,67611 17,91719	6:36
10	87546,45270,00018 8,43620,21706	1 81149,68750 74,70302	2 06918,36381 65,39670	9,94223,85535,7166 4,18517,5385	10,25803,75892 17,91326	6: 0
9	87538,01649,78312 8,43886,87310	1 81074,98448 74,65582	2 06852,96711 65,34907	9,94219,67018,1781 4,18690,1802	10,25785,84566 17,90931	5:24
8	87529,57762,91002 8,44153,50345	1 81000,32866 74,60866	2 06787,61804 65,30150	9,94215,48327,9979 4,18862,8551	10,25767,93635 17,90539	4:48
7	87521,13609,40657 8,44420,10807	1 80925,72000 74,56156	2 06722,31654 65,25397	9,94211,29465,1428 4,19035,5634	10,25750,03096 17,90146	4:12
6	87512,69189,29850 8,44686,68698	1 80851,15844 74,51450	2 06657,06257 65,20650	9,94207,10429,5794 4,19208,3050	10,25732,12950 17,89754	3:36
5	87504,24502,61152 8,44953,24014	1 80776,64394 74,46750	2 06591,85607 65,15908	9,94202,91221,2744 4,19381,0800	10,25714,23196 17,89362	3: 0
4	87495,79549,37138 8,45219,76758	1 80702,17644 74,42054	2 06526,69699 65,11170	9,94198,71840,1944 4,19553,8883	10,25696,33834 17,88971	2:24
3	87487,34329,60380 8,45486,26927	1 80627,75590 74,37364	2 06461,58529 65,06437	9,94194,52286,3061 4,19726,7301	10,25678,44863 17,88579	1:48
2	87478,88843,33453 8,45752,74520	1 80553,38226 74,32677	2 06396,52092 65,01710	9,94190,32559,5760 4,19899,6051	10,25660,56284 17,88189	1:12
1	87470,43090,58933 8,46019,19537	1 80479,05549 74,27996	2 06331,50382 64,96986	9,94186,12659,9709 4,20072,5138	10,25642,68095 17,87799	0:36
0	87461,97071,39396 8,46285,61977	1 80404,77553 74,23320	2 06266,53396 64,92268	9,94181,92587,4571 4,20245,4557	10,25624,80296 17,87408	0: 0

GRAD. 61.

29. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	48480,96202,46337 15,26425,51076	55430,90515 22,81817	1 14335,40679 11,06421	9,68557,12291,0057 13,67163,1307	9,74375,19704 17,87408	0: 0
1	48496,22627,97413 15,26277,78281	55453,72332 22,82259	1 14346,47100 11,06984	9,68570,79454,1364 13,66600,6298	9,74393,07112 17,87019	0:36
2	48511,48905,75694 15,26130,00837	55476,54591 22,82701	1 14357,54084 11,07546	9,68584,46054,7662 13,66038,4829	9,74410,94131 17,86630	1:12
3	48526,75035,76531 15,25982,18743	55499,37292 22,83143	1 14368,61630 11,08110	9,68598,12093,2491 13,65476,6895	9,74428,80761 17,86241	1:48
4	48542,01017,95274 15,25834,32001	55522,20435 22,83586	1 14379,69740 11,08672	9,68611,77569,9386 13,64915,2491	9,74446,67002 17,85853	2:24
5	48557,26852,27275 15,25686,40612	55545,04021 22,84029	1 14390,78412 11,09236	9,68625,42485,1877 13,64354,1618	9,74464,52855 17,85465	3: 0
6	48572,52538,67887 15,25538,44574	55567,88050 22,84472	1 14401,87648 11,09800	9,68639,06839,3495 13,63793,4267	9,74482,38320 17,85077	3:36
7	48587,78077,12461 15,25390,43889	55590,72522 22,84915	1 14412,97448 11,10364	9,68652,70632,7762 13,63233,0436	9,74500,23397 17,84690	4:12
8	48603,03467,56350 15,25242,38559	55613,57437 22,85358	1 14424,07812 11,10928	9,68666,33865,8198 13,62673,0124	9,74518,08087 17,84303	4:48
9	48618,28709,94909 15,25094,28581	55636,42795 22,85803	1 14435,18740 11,11492	9,68679,96538,8322 13,62113,3325	9,74535,92390 17,83917	5:24
10	48633,53804,23490 15,24946,13959	55659,28598 22,86247	1 14446,30232 11,12057	9,68693,58652,1647 13,61554,0034	9,74553,76307 17,83531	6: 0
11	48648,78750,37449 15,24797,94691	55682,14845 22,86691	1 14457,42289 11,12622	9,68707,20206,1681 13,60995,0250	9,74571,59838 17,83145	6:36
12	48664,03548,32140 15,24649,70778	55705,01536 22,87136	1 14468,54911 11,13187	9,68720,81201,1931 13,60436,3968	9,74589,42983 17,82760	7:12
13	48679,28198,02918 15,24501,42220	55727,88672 22,87580	1 14479,68098 11,13752	9,68734,41637,5899 13,59878,1186	9,74607,25743 17,82375	7:48
14	48694,52699,45138 15,24353,09020	55750,76252 22,88026	1 14490,81850 11,14318	9,68748,01515,7085 13,59320,1898	9,74625,08118 17,81990	8:24
15	48709,77052,54158 15,24204,71174	55773,64278 22,88472	1 14501,96168 11,14884	9,68761,60835,8983 13,58762,6101	9,74642,90108 17,81606	9: 0
16	48725,01257,25332 15,24056,28688	55796,52750 22,88917	1 14513,11052 11,15450	9,68775,19598,5084 13,58205,3793	9,74660,71714 17,81223	9:36
17	48740,25313,54020 15,23907,81557	55819,41667 22,89363	1 14524,26502 11,16015	9,68788,77803,8877 13,57648,4969	9,74678,52937 17,80839	10:12
18	48755,49221,35577 15,23759,29785	55842,31030 22,89810	1 14535,42517 11,16583	9,68802,35452,3846 13,57091,9625	9,74696,33776 17,80456	10:48
19	48770,72980,65362 15,23610,73371	55865,20840 22,90256	1 14546,59100 11,17149	9,68815,92544,3471 13,56535,7759	9,74714,14232 17,80073	11:24
20	48785,96591,38733 15,23462,12316	55888,11096 22,90703	1 14557,76249 11,17716	9,68829,49080,1230 13,55979,9365	9,74731,94305 17,79692	12: 0
21	48801,20053,51049 15,23313,46620	55911,01799 22,91150	1 14568,93965 11,18283	9,68843,05060,0595 13,55424,4443	9,74749,73997 17,79309	12:36
22	48816,43366,97669 15,23164,76284	55933,92949 22,91598	1 14580,12248 11,18851	9,68856,60484,5038 13,54869,2985	9,74767,53306 17,78928	13:12
23	48831,66531,73953 15,23016,01309	55956,84547 22,92045	1 14591,31099 11,19418	9,68870,15353,8023 13,54314,4991	9,74785,32234 17,78547	13:48
24	48846,89547,75262 15,22867,21693	55979,76592 22,92493	1 14602,50517 11,19987	9,68883,69668,3014 13,53760,0457	9,74803,10781 17,78166	14:24
25	48862,12414,96955 15,22718,37439	56002,69085 22,92941	1 14613,70504 11,20554	9,68897,23428,3471 13,53205,9376	9,74820,88947 17,77786	15: 0
26	48877,35133,34394 15,22569,48546	56025,62026 22,93390	1 14624,91058 11,21123	9,68910,76634,2847 13,52652,1749	9,74838,66733 17,77406	15:36
27	48892,57702,82940 15,22420,55016	56048,55416 22,93838	1 14636,12181 11,21691	9,68924,29286,4596 13,52098,7570	9,74856,44139 17,77026	16:12
28	48907,80123,37956 15,22271,56848	56071,49254 22,94288	1 14647,33872 11,22260	9,68937,81385,2166 13,51545,6836	9,74874,21165 17,76648	16:48
29	48923,02394,94804 15,22122,54042	56094,43542 22,94736	1 14658,56132 11,22830	9,68951,32930,9002 13,50992,9543	9,74891,97813 17,76268	17:24
30	48938,24517,48846 15,21973,46601	56117,38278 22,95187	1 14669,78962 11,23398	9,68964,83923,8545 13,50440,5687	9,74909,74081 17,75890	18: 0
31	48953,46490,95447 15,21824,34522	56140,33465 22,95636	1 14681,02360 11,23968	9,68978,34364,4232 13,49888,5267	9,74927,49971 17,75512	18:36
32	48968,68315,29969 15,21675,17808	56163,29101 22,96086	1 14692,26328 11,24538	9,68991,84252,9499 13,49336,8276	9,74945,25483 17,75134	19:12
33	48983,89990,47777 15,21525,96460	56186,25187 22,96537	1 14703,50866 11,25108	9,69005,33589,7775 13,48785,4713	9,74963,00617 17,74757	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	87461,97071,39396 8,46285,61977	1 80404,77553 74,23320	2 06266,53396 64,92268	9,94181,92587,4571 4,20245,4557	10,25624,80296 17,87408	60: 0
99	87453,50785,77419 8,46552,01838	1 80330,54233 74,18649	2 06201,61128 64,87554	9,94177,72342,0014 4,20418,4313	10,25606,92888 17,87019	59:24
98	87445,04233,75581 8,46818,39122	1 80256,35584 74,13983	2 06136,73574 64,82847	9,94173,51923,5701 4,20591,4403	10,25589,05869 17,86630	58:48
97	87436,57415,36459 8,47084,73825	1 80182,21601 74,09320	2 06071,90727 64,78142	9,94169,31332,1298 4,20764,4827	10,25571,19239 17,86241	58:12
96	87428,10330,62634 8,47351,05949	1 80108,12281 74,04665	2 06007,12585 64,73444	9,94165,10567,6471 4,20937,5588	10,25553,32998 17,85853	57:36
95	87419,62979,56685 8,47617,35490	1 80034,07616 74,00012	2 05942,39141 64,68749	9,94160,89630,0883 4,21110,6684	10,25535,47145 17,85465	57: 0
94	87411,15362,21195 8,47883,62451	1 79960,07604 73,95365	2 05877,70392 64,64061	9,94156,68519,4199 4,21283,8115	10,25517,61680 17,85077	56:24
93	87402,67478,58744 8,48149,86827	1 79886,12239 73,90723	2 05813,06331 64,59376	9,94152,47235,6084 4,21456,9883	10,25499,76603 17,84690	55:48
92	87394,19328,71917 8,48416,08621	1 79812,21516 73,86085	2 05748,46955 64,54696	9,94148,25778,6201 4,21630,1987	10,25481,91913 17,84303	55:12
91	87385,70912,63296 8,48682,27831	1 79738,35431 73,81453	2 05683,92259 64,50022	9,94144,04148,4214 4,21803,4427	10,25464,07610 17,83917	54:36
90	87377,22230,35465 8,48948,44454	1 79664,53978 73,76825	2 05619,42237 64,45352	9,94139,82344,9787 4,21976,7203	10,25446,23693 17,83531	54: 0
89	87368,73281,91011 8,49214,58492	1 79590,77153 73,72202	2 05554,96885 64,40686	9,94135,60368,2584 4,22150,0317	10,25428,40162 17,83145	53:24
88	87360,24067,32519 8,49480,69944	1 79517,04951 73,67583	2 05490,56199 64,36026	9,94131,38218,2267 4,22323,3767	10,25410,57017 17,82760	52:48
87	87351,74586,62575 8,49746,78806	1 79443,37368 73,62971	2 05426,20173 64,31371	9,94127,15894,8500 4,22496,7555	10,25392,74257 17,82375	52:12
86	87343,24839,83769 8,50012,85082	1 79369,74397 73,58361	2 05361,88802 64,26719	9,94122,93398,0945 4,22670,1679	10,25374,91882 17,81990	51:36
85	87334,74826,98687 8,50278,88767	1 79296,16036 73,53758	2 05297,62083 64,22073	9,94118,70727,9266 4,22843,6142	10,25357,09892 17,81606	51: 0
84	87326,24548,09920 8,50544,89862	1 79222,62278 73,49159	2 05233,40010 64,17432	9,94114,47884,3124 4,23017,0942	10,25339,28286 17,81223	50:24
83	87317,74003,20058 8,50810,88368	1 79149,13119 73,44564	2 05169,22578 64,12795	9,94110,24867,2182 4,23190,6081	10,25321,47063 17,80839	49:48
82	87309,23192,31690 8,51076,84280	1 79075,68555 73,39975	2 05105,09783 64,08164	9,94106,01676,6101 4,23364,1557	10,25303,66224 17,80456	49:12
81	87300,72115,47410 8,51342,77600	1 79002,28580 73,35390	2 05041,01619 64,03536	9,94101,78312,4544 4,23537,7371	10,25285,85768 17,80073	48:36
80	87292,20772,69810 8,51608,68328	1 78928,93190 73,30810	2 04976,98083 63,98913	9,94097,54774,7173 4,23711,3525	10,25268,05695 17,79692	48: 0
79	87283,69164,01482 8,51874,56460	1 78855,62380 73,26234	2 04912,99170 63,94296	9,94093,31063,3648 4,23885,0018	10,25250,26003 17,79309	47:24
78	87275,17289,45022 8,52140,41998	1 78782,36146 73,21664	2 04849,04874 63,89683	9,94089,07178,3630 4,24058,6848	10,25232,46694 17,78928	46:48
77	87266,65149,03024 8,52406,24941	1 78709,14482 73,17098	2 04785,15191 63,85075	9,94084,83119,6782 4,24232,4019	10,25214,67766 17,78547	46:12
76	87258,12742,78083 8,52672,05286	1 78635,97384 73,12536	2 04721,30116 63,80470	9,94080,58887,2763 4,24406,1529	10,25196,89219 17,78166	45:36
75	87249,60070,72797 8,52937,83034	1 78562,84848 73,07981	2 04657,49646 63,75872	9,94076,34481,1234 4,24579,9378	10,25179,11053 17,77786	45: 0
74	87241,07132,89763 8,53203,58184	1 78489,76867 73,03428	2 04593,73774 63,71278	9,94072,09901,1856 4,24753,7568	10,25161,33267 17,77406	44:24
73	87232,53929,31579 8,53469,30735	1 78416,73439 72,98881	2 04530,02496 63,66688	9,94067,85147,4288 4,24927,6096	10,25143,55861 17,77026	43:48
72	87224,00460,00844 8,53735,00687	1 78343,74558 72,94339	2 04466,35808 63,62103	9,94063,60219,8192 4,25101,4967	10,25125,78835 17,76648	43:12
71	87215,46725,00157 8,54000,68036	1 78270,80219 72,89801	2 04402,73705 63,57523	9,94059,35118,3225 4,25275,4176	10,25108,02187 17,76268	42:36
70	87206,92724,32121 8,54266,32786	1 78197,90418 72,85268	2 04339,16182 63,52947	9,94055,09842,9049 4,25449,3727	10,25090,25919 17,75890	42: 0
69	87198,38457,99335 8,54531,94933	1 78125,05150 72,80740	2 04275,63235 63,48377	9,94050,84393,5322 4,25623,3619	10,25072,50029 17,75512	41:24
68	87189,83926,04402 8,54797,54477	1 78052,24410 72,76216	2 04212,14858 63,43810	9,94046,58770,1703 4,25797,3851	10,25054,74517 17,75134	40:48
67	87181,29128,49925 8,55063,11416	1 77979,48194 72,71697	2 04148,71048 63,39248	9,94042,32972,7852 4,25971,4425	10,25036,99383 17,74757	40:12

GRAD. 60.

29. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	48983,89990,47777	56186,25187	1 14703,50866	9,69005,33589,7775	9,74963,00617	19:48
	15,21525,96460	22,96537	11,25108	13,48785,4713	17,74757	
34	48999,11516,44237	56209,21724	1 14714,75974	9,69018,82375,2488	9,74980,75374	20:24
	15,21376,70475	22,96987	11,25678	13,48234,4574	17,74380	
35	49014,32893,14712	56232,18711	1 14726,01652	9,69032,30609,7062	9,74998,49754	21: 0
	15,21227,39857	22,97438	11,26249	13,47683,7854	17,74003	
36	49029,54120,54569	56255,16149	1 14737,27901	9,69045,78293,4916	9,75016,23757	21:36
	15,21078,04604	22,97889	11,26819	13,47133,4552	17,73628	
37	49044,75198,59173	56278,14038	1 14748,54720	9,69059,25426,9468	9,75033,97385	22:12
	15,20928,64719	22,98341	11,27391	13,46583,4661	17,73251	
38	49059,96127,23892	56301,12379	1 14759,82111	9,69072,72010,4129	9,75051,70636	22:48
	15,20779,20200	22,98793	11,27961	13,46033,8182	17,72876	
39	49075,16906,44092	56324,11172	1 14771,10072	9,69086,18044,2311	9,75069,43512	23:24
	15,20629,71049	22,99244	11,28533	13,45484,5107	17,72501	
40	49090,37536,15141	56347,10416	1 14782,38605	9,69099,63528,7418	9,75087,16013	24: 0
	15,20480,17265	22,99697	11,29105	13,44935,5436	17,72127	
41	49105,58016,32406	56370,10113	1 14793,67710	9,69113,08464,2854	9,75104,88140	24:36
	15,20330,58850	23,00149	11,29676	13,44386,9163	17,71752	
42	49120,78346,91256	56393,10262	1 14804,97386	9,69126,52851,2017	9,75122,59892	25:12
	15,20180,95804	23,00602	11,30249	13,43838,6287	17,71378	
43	49135,98527,87060	56416,10864	1 14816,27635	9,69139,96689,8304	9,75140,31270	25:48
	15,20031,28127	23,01056	11,30821	13,43290,6801	17,71004	
44	49151,18559,15187	56439,11920	1 14827,58456	9,69153,39980,5105	9,75158,02274	26:24
	15,19881,55820	23,01508	11,31394	13,42743,0705	17,70632	
45	49166,38440,71007	56462,13428	1 14838,89850	9,69166,82723,5810	9,75175,72906	27: 0
	15,19731,78882	23,01963	11,31966	13,42195,7994	17,70258	
46	49181,58172,49889	56485,15391	1 14850,21816	9,69180,24919,3804	9,75193,43164	27:36
	15,19581,97316	23,02416	11,32540	13,41648,8665	17,69886	
47	49196,77754,47205	56508,17807	1 14861,54356	9,69193,66568,2469	9,75211,13050	28:12
	15,19432,11121	23,02870	11,33113	13,41102,2713	17,69515	
48	49211,97186,58326	56531,20677	1 14872,87469	9,69207,07670,5182	9,75228,82565	28:48
	15,19282,20296	23,03325	11,33686	13,40556,0137	17,69142	
49	49227,16468,78622	56554,24002	1 14884,21155	9,69220,48226,5319	9,75246,51707	29:24
	15,19132,24845	23,03780	11,34261	13,40010,0931	17,68771	
50	49242,35601,03467	56577,27782	1 14895,55416	9,69233,88236,6250	9,75264,20478	30: 0
	15,18982,24766	23,04235	11,34834	13,39464,5095	17,68400	
51	49257,54583,28233	56600,32017	1 14906,90250	9,69247,27701,1345	9,75281,88878	30:36
	15,18832,20059	23,04690	11,35409	13,38919,2621	17,68030	
52	49272,73415,48292	56623,36707	1 14918,25659	9,69260,66620,3966	9,75299,56908	31:12
	15,18682,10725	23,05145	11,35983	13,38374,3508	17,67659	
53	49287,92097,59017	56646,41852	1 14929,61642	9,69274,04994,7474	9,75317,24567	31:48
	15,18531,96767	23,05601	11,36558	13,37829,7755	17,67290	
54	49303,10629,55784	56669,47453	1 14940,98200	9,69287,42824,5229	9,75334,91857	32:24
	15,18381,78182	23,06058	11,37133	13,37285,5353	17,66920	
55	49318,29011,33966	56692,53511	1 14952,35333	9,69300,80110,0582	9,75352,58777	33: 0
	15,18231,54971	23,06514	11,37709	13,36741,6304	17,66551	
56	49333,47242,88937	56715,60025	1 14963,73042	9,69314,16851,6886	9,75370,25328	33:36
	15,18081,27136	23,06970	11,38284	13,36198,0601	17,66182	
57	49348,65324,16073	56738,66995	1 14975,11326	9,69327,53049,7487	9,75387,91510	34:12
	15,17930,94677	23,07428	11,38859	13,35654,8242	17,65814	
58	49363,83255,10750	56761,74423	1 14986,50185	9,69340,88704,5729	9,75405,57324	34:48
	15,17780,57594	23,07885	11,39436	13,35111,9223	17,65446	
59	49379,01035,68344	56784,82308	1 14997,89621	9,69354,23816,4952	9,75423,22770	35:24
	15,17630,15887	23,08342	11,40011	13,34569,3542	17,65078	
60	49394,18665,84231	56807,90650	1 15009,29632	9,69367,58385,8494	9,75440,87848	36: 0
	15,17479,69557	23,08800	11,40589	13,34027,1194	17,64712	
61	49409,36145,53788	56830,99450	1 15020,70221	9,69380,92412,9688	9,75458,52560	36:36
	15,17329,18605	23,09258	11,41165	13,33485,2176	17,64344	
62	49424,53474,72393	56854,08708	1 15032,11386	9,69394,25898,1864	9,75476,16904	37:12
	15,17178,63031	23,09717	11,41741	13,32943,6484	17,63977	
63	49439,70653,35424	56877,18425	1 15043,53127	9,69407,58841,8348	9,75493,80881	37:48
	15,17028,02836	23,10175	11,42319	13,32402,4117	17,63612	
64	49454,87681,38260	56900,28600	1 15054,95446	9,69420,91244,2465	9,75511,44493	38:24
	15,16877,38018	23,10634	11,42897	13,31861,5069	17,63246	
65	49470,04558,76278	56923,39234	1 15066,38343	9,69434,23105,7534	9,75529,07739	39: 0
	15,16726,68580	23,11093	11,43474	13,31320,9338	17,62880	
66	49485,21285,44858	56946,50327	1 15077,81817	9,69447,54426,6872	9,75546,70619	39:36
	15,16575,94523	23,11553	11,44052	13,30780,6920	17,62515	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	87181,29128,49925 8,55063,11416	1 77979,48194 72,71697	2 04148,71048 63,39248	9,94042,32972,7852 4,25971,4425	10,25036,99383 17,74757	40:12
66	87172,74065,38509 8,55328,65752	1 77906,76497 72,67182	2 04085,31800 63,34692	9,94038,07001,3427 4,26145,5341	10,25019,24626 17,74380	39:36
65	87164,18736,72757 8,55594,17481	1 77834,09315 72,62673	2 04021,97108 63,30139	9,94033,80855,8086 4,26319,6597	10,25001,50246 17,74003	39: 0
64	87155,63142,55276 8,55859,66605	1 77761,46642 72,58168	2 03958,66969 63,25591	9,94029,54536,1489 4,26493,8196	10,24983,76243 17,73628	38:24
63	87147,07282,88671 8,56125,13122	1 77688,88474 72,53667	2 03895,41378 63,21048	9,94025,28042,3293 4,26668,0138	10,24966,02615 17,73251	37:48
62	87138,51157,75549 8,56390,57030	1 77616,34807 72,49171	2 03832,20330 63,16510	9,94021,01374,3155 4,26842,2420	10,24948,29364 17,72876	37:12
61	87129,94767,18519 8,56655,98330	1 77543,85636 72,44680	2 03769,03820 63,11975	9,94016,74532,0735 4,27016,5047	10,24930,56488 17,72501	36:36
60	87121,38111,20189 8,56921,37020	1 77471,40956 72,40193	2 03705,91845 63,07446	9,94012,47515,5688 4,27190,8015	10,24912,83987 17,72127	36: 0
59	87112,81189,83169 8,57186,73099	1 77399,00763 72,35712	2 03642,84399 63,02922	9,94008,20324,7673 4,27365,1326	10,24895,11860 17,71752	35:24
58	87104,24003,10070 8,57452,06569	1 77326,65051 72,31234	2 03579,81477 62,98401	9,94003,92959,6347 4,27539,4981	10,24877,40108 17,71378	34:48
57	87095,66551,03501 8,57717,37426	1 77254,33817 72,26761	2 03516,83076 62,93886	9,93999,65420,1366 4,27713,8979	10,24859,68730 17,71004	34:12
56	87087,08833,66075 8,57982,65669	1 77182,07056 72,22293	2 03453,89190 62,89375	9,93995,37706,2387 4,27888,3321	10,24841,97726 17,70632	33:36
55	87078,50851,00406 8,58247,91300	1 77109,84763 72,17829	2 03390,99815 62,84868	9,93991,09817,9066 4,28062,8005	10,24824,27094 17,70258	33: 0
54	87069,92603,09106 8,58513,14317	1 77037,66934 72,13370	2 03328,14947 62,80367	9,93986,81755,1061 4,28237,3035	10,24806,56836 17,69886	32:24
53	87061,34089,94789 8,58778,34717	1 76965,53564 72,08916	2 03265,34580 62,75869	9,93982,53517,8026 4,28411,8409	10,24788,86950 17,69515	31:48
52	87052,75311,60072 8,59043,52502	1 76893,44648 72,04465	2 03202,58711 62,71376	9,93978,25105,9617 4,28586,4126	10,24771,17435 17,69142	31:12
51	87044,16268,07570 8,59308,67670	1 76821,40183 72,00021	2 03139,87335 62,66888	9,93973,96519,5491 4,28761,0188	10,24753,48293 17,68771	30:36
50	87035,56959,39900 8,59573,80221	1 76749,40162 71,95579	2 03077,20447 62,62405	9,93969,67758,5303 4,28935,6596	10,24735,79522 17,68400	30: 0
49	87026,97385,59679 8,59838,90153	1 76677,44583 71,91143	2 03014,58042 62,57925	9,93965,38822,8707 4,29110,3347	10,24718,11122 17,68030	29:24
48	87018,37546,69526 8,60103,97466	1 76605,53440 71,86712	2 02952,00117 62,53450	9,93961,09712,5360 4,29285,0445	10,24700,43092 17,67659	28:48
47	87009,77442,72060 8,60369,02159	1 76533,66728 71,82284	2 02889,46667 62,48980	9,93956,80427,4915 4,29459,7888	10,24682,75433 17,67290	28:12
46	87001,17073,69901 8,60634,04231	1 76461,84444 71,77861	2 02826,97687 62,44515	9,93952,50967,7027 4,29634,5676	10,24665,08143 17,66920	27:36
45	86992,56439,65670 8,60899,03682	1 76390,06583 71,73443	2 02764,53172 62,40054	9,93948,21333,1351 4,29809,3811	10,24647,41223 17,66551	27: 0
44	86983,95540,61988 8,61164,00509	1 76318,33140 71,69030	2 02702,13118 62,35597	9,93943,91523,7540 4,29984,2291	10,24629,74672 17,66182	26:24
43	86975,34376,61479 8,61428,94714	1 76246,64110 71,64621	2 02639,77521 62,31144	9,93939,61539,5249 4,30159,1117	10,24612,08490 17,65814	25:48
42	86966,72947,66765 8,61693,86295	1 76174,99489 71,60215	2 02577,46377 62,26697	9,93935,31380,4132 4,30334,0291	10,24594,42676 17,65446	25:12
41	86958,11253,80470 8,61958,75251	1 76103,39274 71,55816	2 02515,19680 62,22254	9,93931,01046,3841 4,30508,9810	10,24576,77230 17,65078	24:36
40	86949,49295,05219 8,62223,61581	1 76031,83458 71,51420	2 02452,97426 62,17815	9,93926,70537,4031 4,30683,9676	10,24559,12152 17,64712	24: 0
39	86940,87071,43638 8,62488,45284	1 75960,32038 71,47029	2 02390,79611 62,13381	9,93922,39853,4355 4,30858,9891	10,24541,47440 17,64344	23:24
38	86932,24582,98354 8,62753,26361	1 75888,85009 71,42642	2 02328,66230 62,08952	9,93918,08994,4464 4,31034,0451	10,24523,83096 17,63977	22:48
37	86923,61829,71993 8,63018,04809	1 75817,42367 71,38260	2 02266,57278 62,04525	9,93913,77960,4013 4,31209,1360	10,24506,19119 17,63612	22:12
36	86914,98811,67184 8,63282,80628	1 75746,04107 71,33882	2 02204,52753 62,00105	9,93909,46751,2653 4,31384,2617	10,24488,55507 17,63246	21:36
35	86906,35528,86556 8,63547,53819	1 75674,70225 71,29509	2 02142,52648 61,95689	9,93905,15367,0036 4,31559,4220	10,24470,92261 17,62880	21: 0
34	86897,71981,32737 8,63812,24377	1 75603,40716 71,25140	2 02080,56959 61,91276	9,93900,83807,5816 4,31734,6173	10,24453,29381 17,62515	20:24

GRAD. 60.

29. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	49500,37861,39381	56969,61880	1 15089,25869	9,69460,85207,3792	9,75564,33134	40:12
	15,16425,15846	23,12012	11,44630	13,30240,7811	17,62151	
68	49515,54286,55227	56992,73892	1 15100,70499	9,69474,15448,1603	9,75581,95285	40:48
	15,16274,32548	23,12472	11,45209	13,29701,2010	17,61786	
69	49530,70560,87775	57015,86364	1 15112,15708	9,69487,45149,3613	9,75599,57071	41:24
	15,16123,44633	23,12933	11,45787	13,29161,9512	17,61423	
70	49545,86684,32408	57038,99297	1 15123,61495	9,69500,74311,3125	9,75617,18494	42: 0
	15,15972,52098	23,13393	11,46366	13,28623,0312	17,61058	
71	49561,02656,84506	57062,12690	1 15135,07861	9,69514,02934,3437	9,75634,79552	42:36
	15,15821,54947	23,13854	11,46945	13,28084,4411	17,60696	
72	49576,18478,39453	57085,26544	1 15146,54806	9,69527,31018,7848	9,75652,40248	43:12
	15,15670,53177	23,14315	11,47525	13,27546,1800	17,60333	
73	49591,34148,92630	57108,40859	1 15158,02331	9,69540,58564,9648	9,75670,00581	43:48
	15,15519,46791	23,14776	11,48104	13,27008,2481	17,59970	
74	49606,49668,39421	57131,55635	1 15169,50435	9,69553,85573,2129	9,75687,60551	44:24
	15,15368,35787	23,15239	11,48684	13,26470,6448	17,59608	
75	49621,65036,75208	57154,70874	1 15180,99119	9,69567,12043,8577	9,75705,20159	45: 0
	15,15217,20169	23,15700	11,49264	13,25933,3697	17,59246	
76	49636,80253,95377	57177,86574	1 15192,48383	9,69580,37977,2274	9,75722,79405	45:36
	15,15065,99934	23,16162	11,49844	13,25396,4227	17,58885	
77	49651,95319,95311	57201,02736	1 15203,98227	9,69593,63373,6501	9,75740,38290	46:12
	15,14914,75084	23,16625	11,50425	13,24859,8032	17,58524	
78	49667,10234,70395	57224,19361	1 15215,48652	9,69606,88233,4533	9,75757,96814	46:48
	15,14763,45620	23,17088	11,51006	13,24323,5112	17,58163	
79	49682,24998,16015	57247,36449	1 15226,99658	9,69620,12556,9645	9,75775,54977	47:24
	15,14612,11540	23,17550	11,51587	13,23787,5459	17,57803	
80	49697,39610,27555	57270,53999	1 15238,51245	9,69633,36344,5104	9,75793,12780	48: 0
	15,14460,72849	23,18015	11,52168	13,23251,9074	17,57443	
81	49712,54071,00404	57293,72014	1 15250,03413	9,69646,59596,4178	9,75810,70223	48:36
	15,14309,29542	23,18477	11,52750	13,22716,5953	17,57083	
82	49727,68380,29946	57316,90491	1 15261,56163	9,69659,82313,0131	9,75828,27306	49:12
	15,14157,81624	23,18942	11,53331	13,22181,6090	17,56725	
83	49742,82538,11570	57340,09433	1 15273,09494	9,69673,04494,6221	9,75845,84031	49:48
	15,14006,29093	23,19406	11,53914	13,21646,9484	17,56365	
84	49757,96544,40663	57363,28839	1 15284,63408	9,69686,26141,5705	9,75863,40396	50:24
	15,13854,71949	23,19870	11,54496	13,21112,6131	17,56007	
85	49773,10399,12612	57386,48709	1 15296,17904	9,69699,47254,1836	9,75880,96403	51: 0
	15,13703,10195	23,20335	11,55078	13,20578,6029	17,55648	
86	49788,24102,22807	57409,69044	1 15307,72982	9,69712,67832,7865	9,75898,52051	51:36
	15,13551,43830	23,20800	11,55661	13,20044,9172	17,55291	
87	49803,37653,66637	57432,89844	1 15319,28643	9,69725,87877,7037	9,75916,07342	52:12
	15,13399,72854	23,21266	11,56245	13,19511,5559	17,54933	
88	49818,51053,39491	57456,11110	1 15330,84888	9,69739,07389,2596	9,75933,62275	52:48
	15,13247,97267	23,21731	11,56827	13,18978,5187	17,54577	
89	49833,64301,36758	57479,32841	1 15342,41715	9,69752,26367,7783	9,75951,16852	53:24
	15,13096,17072	23,22196	11,57411	13,18445,8050	17,54219	
90	49848,77397,53830	57502,55037	1 15353,99126	9,69765,44813,5833	9,75968,71071	54: 0
	15,12944,32267	23,22664	11,57995	13,17913,4148	17,53863	
91	49863,90341,86097	57525,77701	1 15365,57121	9,69778,62726,9981	9,75986,24934	54:36
	15,12792,42854	23,23129	11,58579	13,17381,3476	17,53508	
92	49879,03134,28951	57549,00830	1 15377,15700	9,69791,80108,3457	9,76003,78442	55:12
	15,12640,48831	23,23596	11,59163	13,16849,6029	17,53151	
93	49894,15774,77782	57572,24426	1 15388,74863	9,69804,96957,9486	9,76021,31593	55:48
	15,12488,50203	23,24063	11,59747	13,16318,1808	17,52796	
94	49909,28263,27985	57595,48489	1 15400,34610	9,69818,13276,1294	9,76038,84389	56:24
	15,12336,46965	23,24531	11,60332	13,15787,0807	17,52442	
95	49924,40599,74950	57618,73020	1 15411,94942	9,69831,29063,2101	9,76056,36831	57: 0
	15,12184,39121	23,24998	11,60918	13,15256,3023	17,52087	
96	49939,52784,14071	57641,98018	1 15423,55860	9,69844,44319,5124	9,76073,88918	57:36
	15,12032,26672	23,25466	11,61502	13,14725,8452	17,51732	
97	49954,64816,40743	57665,23484	1 15435,17362	9,69857,59045,3576	9,76091,40650	58:12
	15,11880,09615	23,25934	11,62088	13,14195,7092	17,51379	
98	49969,76696,50358	57688,49418	1 15446,79450	9,69870,73241,0668	9,76108,92029	58:48
	15,11727,87954	23,26403	11,62674	13,13665,8941	17,51025	
99	49984,88424,38312	57711,75821	1 15458,42124	9,69883,86906,9609	9,76126,43054	59:24
	15,11575,61688	23,26871	11,63260	13,13136,3993	17,50672	
100	50000,00000,00000	57735,02692	1 15470,05384	9,69897,00043,3602	9,76143,93726	60: 0
	15,11423,30817	23,27340	11,63846	13,12607,2246	17,50320	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	86889,08169,08360 8,64076,92305	1 75532,15576 71,20776	2 02018,65683 61,86869	9,93896,52072,9643 4,31909,8473	10,24435,66866 17,62151	19:48
32	86880,44092,16055 8,64341,57600	1 75460,94800 71,16415	2 01956,78814 61,82466	9,93892,20163,1170 4,32085,1123	10,24418,04715 17,61786	19:12
31	86871,79750,58455 8,64606,20264	1 75389,78385 71,12060	2 01894,96348 61,78067	9,93887,88078,0047 4,32260,4121	10,24400,42929 17,61423	18:36
30	86863,15144,38191 8,64870,80292	1 75318,66325 71,07709	2 01833,18281 61,73673	9,93883,55817,5926 4,32435,7468	10,24382,81506 17,61058	18: 0
29	86854,50273,57899 8,65135,37687	1 75247,58616 71,03363	2 01771,44608 61,69283	9,93879,23381,8458 4,32611,1164	10,24365,20448 17,60696	17:24
28	86845,85138,20212 8,65399,92446	1 75176,55253 70,99020	2 01709,75325 61,64897	9,93874,90770,7294 4,32786,5210	10,24347,59752 17,60333	16:48
27	86837,19738,27766 8,65664,44569	1 75105,56233 70,94682	2 01648,10428 61,60516	9,93870,57984,2084 4,32961,9605	10,24329,99419 17,59970	16:12
26	86828,54073,83197 8,65928,94055	1 75034,61551 70,90349	2 01586,49912 61,56140	9,93866,25022,2479 4,33137,4350	10,24312,39449 17,59608	15:36
25	86819,88144,89142 8,66193,40903	1 74963,71202 70,86020	2 01524,93772 61,51767	9,93861,91884,8129 4,33312,9446	10,24294,79841 17,59246	15: 0
24	86811,21951,48239 8,66457,85113	1 74892,85182 70,81695	2 01463,42005 61,47399	9,93857,58571,8683 4,33488,4891	10,24277,20595 17,58885	14:24
23	86802,55493,63126 8,66722,26682	1 74822,03487 70,77375	2 01401,94606 61,43036	9,93853,25083,3792 4,33664,0687	10,24259,61710 17,58524	13:48
22	86793,88771,36444 8,66986,65613	1 74751,26112 70,73059	2 01340,51570 61,38676	9,93848,91419,3105 4,33839,6833	10,24242,03186 17,58163	13:12
21	86785,21784,70831 8,67251,01903	1 74680,53053 70,68748	2 01279,12894 61,34322	9,93844,57579,6272 4,34015,3331	10,24224,45023 17,57803	12:36
20	86776,54533,68928 8,67515,35549	1 74609,84305 70,64440	2 01217,78572 61,29971	9,93840,23564,2941 4,34191,0179	10,24206,87220 17,57443	12: 0
19	86767,87018,33379 8,67779,66554	1 74539,19865 70,60138	2 01156,48601 61,25625	9,93835,89373,2762 4,34366,7380	10,24189,29777 17,57083	11:24
18	86759,19238,66825 8,68043,94915	1 74468,59727 70,55839	2 01095,22976 61,21283	9,93831,55006,5382 4,34542,4931	10,24171,72694 17,56725	10:48
17	86750,51194,71910 8,68308,20633	1 74398,03888 70,51546	2 01034,01693 61,16945	9,93827,20464,0451 4,34718,2834	10,24154,15969 17,56365	10:12
16	86741,82886,51277 8,68572,43704	1 74327,52342 70,47255	2 00972,84748 61,12613	9,93822,85745,7617 4,34894,1089	10,24136,59604 17,56007	9:36
15	86733,14314,07573 8,68836,64131	1 74257,05087 70,42970	2 00911,72135 61,08283	9,93818,50851,6528 4,35069,9697	10,24119,03597 17,55648	9: 0
14	86724,45477,43442 8,69100,81910	1 74186,62117 70,38690	2 00850,63852 61,03959	9,93814,15781,6831 4,35245,8656	10,24101,47949 17,55291	8:24
13	86715,76376,61532 8,69364,97042	1 74116,23427 70,34412	2 00789,59893 60,99639	9,93809,80535,8175 4,35421,7968	10,24083,92658 17,54933	7:48
12	86707,07011,64490 8,69629,09526	1 74045,89015 70,30141	2 00728,60254 60,95323	9,93805,45114,0207 4,35597,7634	10,24066,37725 17,54577	7:12
11	86698,37382,54964 8,69893,19361	1 73975,58874 70,25872	2 00667,64931 60,91012	9,93801,09516,2573 4,35773,7652	10,24048,83148 17,54219	6:36
10	86689,67489,35603 8,70157,26546	1 73905,33002 70,21608	2 00606,73919 60,86704	9,93796,73742,4921 4,35949,8023	10,24031,28929 17,53863	6: 0
9	86680,97332,09057 8,70421,31081	1 73835,11394 70,17349	2 00545,87215 60,82401	9,93792,37792,6898 4,36125,8749	10,24013,75066 17,53508	5:24
8	86672,26910,77976 8,70685,32963	1 73764,94045 70,13094	2 00485,04814 60,78102	9,93788,01666,8149 4,36301,9826	10,23996,21558 17,53151	4:48
7	86663,56225,45013 8,70949,32194	1 73694,80951 70,08844	2 00424,26712 60,73808	9,93783,65364,8323 4,36478,1259	10,23978,68407 17,52796	4:12
6	86654,85276,12819 8,71213,28772	1 73624,72107 70,04596	2 00363,52904 60,69518	9,93779,28886,7064 4,36654,3046	10,23961,15611 17,52442	3:36
5	86646,14062,84047 8,71477,22695	1 73554,67511 70,00355	2 00302,83386 60,65232	9,93774,92232,4018 4,36830,5186	10,23943,63169 17,52087	3: 0
4	86637,42585,61352 8,71741,13965	1 73484,67156 69,96116	2 00242,18154 60,60950	9,93770,55401,8832 4,37006,7682	10,23926,11082 17,51732	2:24
3	86628,70844,47387 8,72005,02578	1 73414,71040 69,91883	2 00181,57204 60,56673	9,93766,18395,1150 4,37183,0531	10,23908,59350 17,51379	1:48
2	86619,98839,44809 8,72268,88535	1 73344,79157 69,87653	2 00121,00531 60,52400	9,93761,81212,0619 4,37359,3737	10,23891,07971 17,51025	1:12
1	86611,26570,56274 8,72532,71835	1 73274,91504 69,83428	2 00060,48131 60,48131	9,93757,43852,6882 4,37535,7297	10,23873,56946 17,50672	0:36
0	86602,54037,84439 8,72796,52478	1 73205,08076 69,79208	2 00000,00000 60,43866	9,93753,06316,9585 4,37712,1212	10,23856,06274 17,50320	0: 0

GRAD. 60.

30. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	50000,00000,00000	57735,02692	1 15470,05384	9,69897,00043,3602	9,76143,93726	0: 0
	15,11423,30817	23,27340	11,63846	13,12607,2246	17,50320	
1	50015,11423,30817	57758,30032	1 15481,69230	9,69910,12650,5848	9,76161,44046	0:36
	15,11270,95341	23,27810	11,64432	13,12078,3697	17,49967	
2	50030,22694,26158	57781,57842	1 15493,33662	9,69923,24728,9545	9,76178,94013	1:12
	15,11118,55263	23,28279	11,65019	13,11549,8342	17,49615	
3	50045,33812,81421	57804,86121	1 15504,98681	9,69936,36278,7887	9,76196,43628	1:48
	15,10966,10582	23,28749	11,65607	13,11021,6179	17,49263	
4	50060,44778,92003	57828,14870	1 15516,64288	9,69949,47300,4066	9,76213,92891	2:24
	15,10813,61297	23,29219	11,66193	13,10493,7204	17,48911	
5	50075,55592,53300	57851,44089	1 15528,30481	9,69962,57794,1270	9,76231,41802	3: 0
	15,10661,07410	23,29689	11,66781	13,09966,1414	17,48561	
6	50090,66253,60710	57874,73778	1 15539,97262	9,69975,67760,2684	9,76248,90363	3:36
	15,10508,48922	23,30160	11,67369	13,09438,8806	17,48210	
7	50105,76762,09632	57898,03938	1 15551,64631	9,69988,77199,1490	9,76266,38573	4:12
	15,10355,85832	23,30631	11,67956	13,08911,9376	17,47860	
8	50120,87117,95464	57921,34569	1 15563,32587	9,70001,86111,0866	9,76283,86433	4:48
	15,10203,18142	23,31102	11,68545	13,08385,3121	17,47510	
9	50135,97321,13606	57944,65671	1 15575,01132	9,70014,94496,3987	9,76301,33943	5:24
	15,10050,45851	23,31574	11,69133	13,07859,0039	17,47160	
10	50151,07371,59457	57967,97245	1 15586,70265	9,70028,02355,4026	9,76318,81103	6: 0
	15,09897,68961	23,32046	11,69722	13,07333,0125	17,46811	
11	50166,17269,28418	57991,29291	1 15598,39987	9,70041,09688,4151	9,76336,27914	6:36
	15,09744,87470	23,32518	11,70311	13,06807,3378	17,46462	
12	50181,27014,15888	58014,61809	1 15610,10298	9,70054,16495,7529	9,76353,74376	7:12
	15,09592,01382	23,32990	11,70901	13,06281,9792	17,46114	
13	50196,36606,17270	58037,94799	1 15621,81199	9,70067,22777,7321	9,76371,20490	7:48
	15,09439,10694	23,33463	11,71489	13,05756,9367	17,45765	
14	50211,46045,27964	58061,28262	1 15633,52688	9,70080,28534,6688	9,76388,66255	8:24
	15,09286,15409	23,33936	11,72080	13,05232,2098	17,45418	
15	50226,55331,43373	58084,62198	1 15645,24768	9,70093,33766,8786	9,76406,11673	9: 0
	15,09133,15525	23,34409	11,72669	13,04707,7981	17,45070	
16	50241,64464,58898	58107,96607	1 15656,97437	9,70106,38474,6767	9,76423,56743	9:36
	15,08980,11045	23,34883	11,73260	13,04183,7015	17,44723	
17	50256,73444,69943	58131,31490	1 15668,70697	9,70119,42658,3782	9,76441,01466	10:12
	15,08827,01969	23,35357	11,73850	13,03659,9196	17,44376	
18	50271,82271,71912	58154,66847	1 15680,44547	9,70132,46318,2978	9,76458,45842	10:48
	15,08673,88296	23,35830	11,74441	13,03136,4519	17,44030	
19	50286,90945,60208	58178,02677	1 15692,18988	9,70145,49454,7497	9,76475,89872	11:24
	15,08520,70027	23,36305	11,75032	13,02613,2984	17,43683	
20	50301,99466,30235	58201,38982	1 15703,94020	9,70158,52068,0481	9,76493,33555	12: 0
	15,08367,47163	23,36780	11,75623	13,02090,4585	17,43338	
21	50317,07833,77398	58224,75762	1 15715,69643	9,70171,54158,5066	9,76510,76893	12:36
	15,08214,19705	23,37255	11,76214	13,01567,9322	17,42993	
22	50332,16047,97103	58248,13017	1 15727,45857	9,70184,55726,4388	9,76528,19886	13:12
	15,08060,87652	23,37730	11,76807	13,01045,7189	17,42647	
23	50347,24108,84755	58271,50747	1 15739,22664	9,70197,56772,1577	9,76545,62533	13:48
	15,07907,51006	23,38206	11,77398	13,00523,8184	17,42303	
24	50362,32016,35761	58294,88953	1 15751,00062	9,70210,57295,9761	9,76563,04836	14:24
	15,07754,09765	23,38681	11,77991	13,00002,2303	17,41959	
25	50377,39770,45526	58318,27634	1 15762,78053	9,70223,57298,2064	9,76580,46795	15: 0
	15,07600,63933	23,39158	11,78583	12,99480,9545	17,41614	
26	50392,47371,09459	58341,66792	1 15774,56636	9,70236,56779,1609	9,76597,88409	15:36
	15,07447,13507	23,39634	11,79175	12,98959,9905	17,41271	
27	50407,54818,22966	58365,06426	1 15786,35811	9,70249,55739,1514	9,76615,29680	16:12
	15,07293,58490	23,40110	11,79769	12,98439,3380	17,40927	
28	50422,62111,81456	58388,46536	1 15798,15580	9,70262,54178,4894	9,76632,70607	16:48
	15,07139,98882	23,40588	11,80362	12,97918,9969	17,40585	
29	50437,69251,80338	58411,87124	1 15809,95942	9,70275,52097,4863	9,76650,11192	17:24
	15,06986,34681	23,41065	11,80956	12,97398,9665	17,40242	
30	50452,76238,15019	58435,28189	1 15821,76898	9,70288,49496,4528	9,76667,51434	18: 0
	15,06832,65892	23,41542	11,81549	12,96879,2468	17,39900	
31	50467,83070,80911	58458,69731	1 15833,58447	9,70301,46375,6996	9,76684,91334	18:36
	15,06678,92511	23,42021	11,82144	12,96359,8375	17,39558	
32	50482,89749,73422	58482,11752	1 15845,40591	9,70314,42735,5371	9,76702,30892	19:12
	15,06525,14541	23,42498	11,82737	12,95840,7380	17,39216	
33	50497,96274,87963	58505,54250	1 15857,23328	9,70327,38576,2751	9,76719,70108	19:48
	15,06371,31982	23,42977	11,83332	12,95321,9484	17,38875	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	86602,54037,84439 8,72796,52478	1 73205,08076 69,79208	2 00000,00000 60,43866	9,93753,06316,9585 4,37712,1212	10,23856,06274 17,50320	60: 0
99	86593,81241,31961 8,73060,30462	1 73135,28868 69,74990	1 99939,56134 60,39606	9,93748,68604,8373 4,37888,5484	10,23838,55954 17,49967	59:24
98	86585,08181,01499 8,73324,05785	1 73065,53878 69,70778	1 99879,16528 60,35350	9,93744,30716,2889 4,38065,0110	10,23821,05987 17,49615	58:48
97	86576,34856,95714 8,73587,78450	1 72995,83100 69,66570	1 99818,81178 60,31097	9,93739,92651,2779 4,38241,5094	10,23803,56372 17,49263	58:12
96	86567,61269,17264 8,73851,48452	1 72926,16530 69,62367	1 99758,50081 60,26850	9,93735,54409,7685 4,38418,0433	10,23786,07109 17,48911	57:36
95	86558,87417,68812 8,74115,15793	1 72856,54163 69,58166	1 99698,23231 60,22607	9,93731,15991,7252 4,38594,6128	10,23768,58198 17,48561	57: 0
94	86550,13302,53019 8,74378,80471	1 72786,95997 69,53971	1 99638,00624 60,18367	9,93726,77397,1124 4,38771,2181	10,23751,09637 17,48210	56:24
93	86541,38923,72548 8,74642,42486	1 72717,42026 69,49779	1 99577,82257 60,14132	9,93722,38625,8943 4,38947,8589	10,23733,61427 17,47860	55:48
92	86532,64281,30062 8,74906,01836	1 72647,92247 69,45593	1 99517,68125 60,09901	9,93717,99678,0354 4,39124,5357	10,23716,13567 17,47510	55:12
91	86523,89375,28226 8,75169,58522	1 72578,46654 69,41410	1 99457,58224 60,05674	9,93713,60553,4997 4,39301,2480	10,23698,66057 17,47160	54:36
90	86515,14205,69704 8,75433,12540	1 72509,05244 69,37231	1 99397,52550 60,01452	9,93709,21252,2517 4,39477,9961	10,23681,18897 17,46811	54: 0
89	86506,38772,57164 8,75696,63893	1 72439,68013 69,33056	1 99337,51098 59,97233	9,93704,81774,2556 4,39654,7800	10,23663,72086 17,46462	53:24
88	86497,63075,93271 8,75960,12579	1 72370,34957 69,28887	1 99277,53865 59,93019	9,93700,42119,4756 4,39831,5997	10,23646,25624 17,46114	52:48
87	86488,87115,80692 8,76223,58594	1 72301,06070 69,24720	1 99217,60846 59,88809	9,93696,02287,8759 4,40008,4552	10,23628,79510 17,45765	52:12
86	86480,10892,22098 8,76487,01943	1 72231,81350 69,20558	1 99157,72037 59,84604	9,93691,62279,4207 4,40185,3465	10,23611,33745 17,45418	51:36
85	86471,34405,20155 8,76750,42620	1 72162,60792 69,16401	1 99097,87433 59,80401	9,93687,22094,0742 4,40362,2738	10,23593,88327 17,45070	51: 0
84	86462,57654,77535 8,77013,80627	1 72093,44391 69,12247	1 99038,07032 59,76204	9,93682,81731,8004 4,40539,2369	10,23576,43257 17,44723	50:24
83	86453,80640,96908 8,77277,15963	1 72024,32144 69,08098	1 98978,30828 59,72010	9,93678,41192,5635 4,40716,2358	10,23558,98534 17,44376	49:48
82	86445,03363,80945 8,77540,48625	1 71955,24046 69,03952	1 98918,58818 59,67821	9,93674,00476,3277 4,40893,2708	10,23541,54158 17,44030	49:12
81	86436,25823,32320 8,77803,78615	1 71886,20094 68,99811	1 98858,90997 59,63636	9,93669,59583,0569 4,41070,3417	10,23524,10128 17,43683	48:36
80	86427,48019,53705 8,78067,05932	1 71817,20283 68,95675	1 98799,27361 59,59455	9,93665,18512,7152 4,41247,4485	10,23506,66445 17,43338	48: 0
79	86418,69952,47773 8,78330,30572	1 71748,24608 68,91541	1 98739,67906 59,55278	9,93660,77265,2667 4,41424,5913	10,23489,23107 17,42993	47:24
78	86409,91622,17201 8,78593,52538	1 71679,33067 68,87413	1 98680,12628 59,51105	9,93656,35840,6754 4,41601,7702	10,23471,80114 17,42647	46:48
77	86401,13028,64663 8,78856,71828	1 71610,45654 68,83288	1 98620,61523 59,46937	9,93651,94238,9052 4,41778,9851	10,23454,37467 17,42303	46:12
76	86392,34171,92835 8,79119,88439	1 71541,62366 68,79168	1 98561,14586 59,42772	9,93647,52459,9201 4,41956,2360	10,23436,95164 17,41959	45:36
75	86383,55052,04396 8,79383,02374	1 71472,83198 68,75052	1 98501,71814 59,38611	9,93643,10503,6841 4,42133,5231	10,23419,53205 17,41614	45: 0
74	86374,75669,02022 8,79646,13629	1 71404,08146 68,70939	1 98442,33203 59,34455	9,93638,68370,1610 4,42310,8462	10,23402,11591 17,41271	44:24
73	86365,96022,88393 8,79909,22206	1 71335,37207 68,66831	1 98382,98748 59,30303	9,93634,26059,3148 4,42488,2054	10,23384,70320 17,40927	43:48
72	86357,16113,66187 8,80172,28100	1 71266,70376 68,62728	1 98323,68445 59,26154	9,93629,83571,1094 4,42665,6008	10,23367,29393 17,40585	43:12
71	86348,35941,38087 8,80435,31315	1 71198,07648 68,58627	1 98264,42291 59,22010	9,93625,40905,5086 4,42843,0324	10,23349,88808 17,40242	42:36
70	86339,55506,06772 8,80698,31848	1 71129,49021 68,54531	1 98205,20281 59,17871	9,93620,98062,4762 4,43020,5001	10,23332,48566 17,39900	42: 0
69	86330,74807,74924 8,80961,29697	1 71060,94490 68,50440	1 98146,02410 59,13734	9,93616,55041,9761 4,43198,0041	10,23315,08666 17,39558	41:24
68	86321,93846,45227 8,81224,24863	1 70992,44050 68,46352	1 98086,88676 59,09602	9,93612,11843,9720 4,43375,5443	10,23297,69108 17,39216	40:48
67	86313,12622,20364 8,81487,17345	1 70923,97698 68,42269	1 98027,79074 59,05474	9,93607,68468,4277 4,43553,1207	10,23280,29892 17,38875	40:12

GRAD. 59.

30. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	50497,96274,87963 15,06371,31982	58505,54250 23,42977	1 15857,23328 11,83332	9,70327,38576,2751 12,95321,9484	9,76719,70108 17,38875	19:48
34	50513,02646,19945 15,06217,44834	58528,97227 23,43456	1 15869,06660 11,83927	9,70340,33898,2235 12,94803,4680	9,76737,08983 17,38534	20:24
35	50528,08863,64779 15,06063,53099	58552,40683 23,43935	1 15880,90587 11,84522	9,70353,28701,6915 12,94285,2967	9,76754,47517 17,38194	21: 0
36	50543,14927,17878 15,05909,56774	58575,84618 23,44414	1 15892,75109 11,85117	9,70366,22986,9882 12,93767,4343	9,76771,85711 17,37853	21:36
37	50558,20836,74652 15,05755,55864	58599,29032 23,44894	1 15904,60226 11,85713	9,70379,16754,4225 12,93249,8802	9,76789,23564 17,37514	22:12
38	50573,26592,30516 15,05601,50366	58622,73926 23,45373	1 15916,45939 11,86309	9,70392,10004,3027 12,92732,6342	9,76806,61078 17,37174	22:48
39	50588,32193,80882 15,05447,40282	58646,19299 23,45854	1 15928,32248 11,86904	9,70405,02736,9369 12,92215,6962	9,76823,98252 17,36835	23:24
40	50603,37641,21164 15,05293,25612	58669,65153 23,46334	1 15940,19152 11,87501	9,70417,94952,6331 12,91699,0657	9,76841,35087 17,36496	24: 0
41	50618,42934,46776 15,05139,06357	58693,11487 23,46815	1 15952,06653 11,88098	9,70430,86651,6988 12,91182,7423	9,76858,71583 17,36158	24:36
42	50633,48073,53133 15,04984,82516	58716,58302 23,47296	1 15963,94751 11,88694	9,70443,77834,4411 12,90666,7260	9,76876,07741 17,35820	25:12
43	50648,53058,35649 15,04830,54092	58740,05598 23,47778	1 15975,83445 11,89292	9,70456,68501,1671 12,90151,0161	9,76893,43561 17,35482	25:48
44	50663,57888,89741 15,04676,21083	58763,53376 23,48259	1 15987,72737 11,89888	9,70469,58652,1832 12,89635,6127	9,76910,79043 17,35144	26:24
45	50678,62565,10824 15,04521,83491	58787,01635 23,48740	1 15999,62625 11,90487	9,70482,48287,7959 12,89120,5152	9,76928,14187 17,34808	27: 0
46	50693,67086,94315 15,04367,41316	58810,50375 23,49224	1 16011,53112 11,91084	9,70495,37408,3111 12,88605,7235	9,76945,48995 17,34470	27:36
47	50708,71454,35631 15,04212,94558	58833,99599 23,49705	1 16023,44196 11,91682	9,70508,26014,0346 12,88091,2371	9,76962,83465 17,34135	28:12
48	50723,75667,30189 15,04058,43218	58857,49304 23,50189	1 16035,35878 11,92281	9,70521,14105,2717 12,87577,0559	9,76980,17600 17,33798	28:48
49	50738,79725,73407 15,03903,87297	58880,99493 23,50671	1 16047,28159 11,92879	9,70534,01682,3276 12,87063,1793	9,76997,51398 17,33462	29:24
50	50753,83629,60704 15,03749,26794	58904,50164 23,51155	1 16059,21038 11,93478	9,70546,88745,5069 12,86549,6074	9,77014,84860 17,33127	30: 0
51	50768,87378,87498 15,03594,61711	58928,01319 23,51639	1 16071,14516 11,94077	9,70559,75295,1143 12,86036,3396	9,77032,17987 17,32792	30:36
52	50783,90973,49209 15,03439,92048	58951,52958 23,52122	1 16083,08593 11,94677	9,70572,61331,4539 12,85523,3758	9,77049,50779 17,32458	31:12
53	50798,94413,41257 15,03285,17804	58975,05080 23,52607	1 16095,03270 11,95276	9,70585,46854,8297 12,85010,7154	9,77066,83237 17,32123	31:48
54	50813,97698,59061 15,03130,38981	58998,57687 23,53091	1 16106,98546 11,95876	9,70598,31865,5451 12,84498,3583	9,77084,15360 17,31789	32:24
55	50829,00828,98042 15,02975,55581	59022,10778 23,53577	1 16118,94422 11,96477	9,70611,16363,9034 12,83986,3044	9,77101,47149 17,31455	33: 0
56	50844,03804,53623 15,02820,67600	59045,64355 23,54061	1 16130,90899 11,97076	9,70624,00350,2078 12,83474,5530	9,77118,78604 17,31122	33:36
57	50859,06625,21223 15,02665,75044	59069,18416 23,54547	1 16142,87975 11,97678	9,70636,83824,7608 12,82963,1040	9,77136,09726 17,30789	34:12
58	50874,09290,96267 15,02510,77908	59092,72963 23,55032	1 16154,85653 11,98278	9,70649,66787,8648 12,82451,9572	9,77153,40515 17,30456	34:48
59	50889,11801,74175 15,02355,76196	59116,27995 23,55519	1 16166,83931 11,98880	9,70662,49239,8220 12,81941,1120	9,77170,70971 17,30124	35:24
60	50904,14157,50371 15,02200,69909	59139,83514 23,56005	1 16178,82811 11,99481	9,70675,31180,9340 12,81430,5685	9,77188,01095 17,29792	36: 0
61	50919,16358,20280 15,02045,59044	59163,39519 23,56491	1 16190,82292 12,00082	9,70688,12611,5025 12,80920,3261	9,77205,30887 17,29461	36:36
62	50934,18403,79324 15,01890,43604	59186,96010 23,56979	1 16202,82374 12,00685	9,70700,93531,8286 12,80410,3845	9,77222,60348 17,29129	37:12
63	50949,20294,22928 15,01735,23590	59210,52989 23,57465	1 16214,83059 12,01287	9,70713,73942,2131 12,79900,7437	9,77239,89477 17,28798	37:48
64	50964,22029,46518 15,01579,99000	59234,10454 23,57953	1 16226,84346 12,01890	9,70726,53842,9568 12,79391,4031	9,77257,18275 17,28468	38:24
65	50979,23609,45518 15,01424,69837	59257,68407 23,58441	1 16238,86236 12,02492	9,70739,33234,3599 12,78882,3624	9,77274,46743 17,28137	39: 0
66	50994,25034,15355 15,01269,36101	59281,26848 23,58929	1 16250,88728 12,03095	9,70752,12116,7223 12,78373,6216	9,77291,74880 17,27807	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	86313,12622,20364 8,81487,17345	1 70923,97698 68,42269	1 98027,79074 59,05474	9,93607,68468,4277 4,43553,1207	10,23280,29892 17,38875	40:12
66	86304,31135,03019 8,81750,07142	1 70855,55429 68,38189	1 97968,73600 59,01351	9,93603,24915,3070 4,43730,7334	10,23262,91017 17,38534	39:36
65	86295,49384,95877 8,82012,94252	1 70787,17240 68,34114	1 97909,72249 58,97231	9,93598,81184,5736 4,43908,3825	10,23245,52483 17,38194	39: 0
64	86286,67372,01625 8,82275,78676	1 70718,83126 68,30042	1 97850,75018 58,93115	9,93594,37276,1911 4,44086,0678	10,23228,14289 17,37853	38:24
63	86277,85096,22949 8,82538,60412	1 70650,53084 68,25975	1 97791,81903 58,89003	9,93589,93190,1233 4,44263,7895	10,23210,76436 17,37514	37:48
62	86269,02557,62537 8,82801,39461	1 70582,27109 68,21912	1 97732,92900 58,84896	9,93585,48926,3338 4,44441,5475	10,23193,38922 17,37174	37:12
61	86260,19756,23076 8,83064,15819	1 70514,05197 68,17852	1 97674,08004 58,80792	9,93581,04484,7863 4,44619,3420	10,23176,01748 17,36835	36:36
60	86251,36692,07257 8,83326,89487	1 70445,87345 68,13797	1 97615,27212 58,76692	9,93576,59865,4443 4,44797,1728	10,23158,64913 17,36496	36: 0
59	86242,53365,17770 8,83589,60466	1 70377,73548 68,09746	1 97556,50520 58,72597	9,93572,15068,2715 4,44975,0400	10,23141,28417 17,36158	35:24
58	86233,69775,57304 8,83852,28752	1 70309,63802 68,05699	1 97497,77923 58,68505	9,93567,70093,2315 4,45152,9438	10,23123,92259 17,35820	34:48
57	86224,85923,28552 8,84114,94346	1 70241,58103 68,01656	1 97439,09418 58,64417	9,93563,24940,2877 4,45330,8840	10,23106,56439 17,35482	34:12
56	86216,01808,34206 8,84377,57248	1 70173,56447 67,97617	1 97380,45001 58,60334	9,93558,79609,4037 4,45508,8607	10,23089,20957 17,35144	33:36
55	86207,17430,76958 8,84640,17454	1 70105,58830 67,93581	1 97321,84667 58,56255	9,93554,34100,5430 4,45686,8739	10,23071,85813 17,34808	33: 0
54	86198,32790,59504 8,84902,74966	1 70037,65249 67,89551	1 97263,28412 58,52178	9,93549,88413,6691 4,45864,9236	10,23054,51005 17,34470	32:24
53	86189,47887,84538 8,85165,29783	1 69969,75698 67,85523	1 97204,76234 58,48107	9,93545,42548,7455 4,46043,0099	10,23037,16535 17,34135	31:48
52	86180,62722,54755 8,85427,81903	1 69901,90175 67,81501	1 97146,28127 58,44040	9,93540,96505,7356 4,46221,1329	10,23019,82400 17,33798	31:12
51	86171,77294,72852 8,85690,31326	1 69834,08674 67,77481	1 97087,84087 58,39975	9,93536,50284,6027 4,46399,2923	10,23002,48602 17,33462	30:36
50	86162,91604,41526 8,85952,78052	1 69766,31193 67,73466	1 97029,44112 58,35916	9,93532,03885,3104 4,46577,4885	10,22985,15140 17,33127	30: 0
49	86154,05651,63474 8,86215,22077	1 69698,57727 67,69455	1 96971,08196 58,31860	9,93527,57307,8219 4,46755,7213	10,22967,82013 17,32792	29:24
48	86145,19436,41397 8,86477,63405	1 69630,88272 67,65448	1 96912,76336 58,27809	9,93523,10552,1006 4,46933,9907	10,22950,49221 17,32458	28:48
47	86136,32958,77992 8,86740,02030	1 69563,22824 67,61444	1 96854,48527 58,23760	9,93518,63618,1099 4,47112,2969	10,22933,16763 17,32123	28:12
46	86127,46218,75962 8,87002,37956	1 69495,61380 67,57446	1 96796,24767 58,19717	9,93514,16505,8130 4,47290,6397	10,22915,84640 17,31789	27:36
45	86118,59216,38006 8,87264,71180	1 69428,03934 67,53450	1 96738,05050 58,15676	9,93509,69215,1733 4,47469,0194	10,22898,52851 17,31455	27: 0
44	86109,71951,66826 8,87527,01699	1 69360,50484 67,49458	1 96679,89374 58,11641	9,93505,21746,1539 4,47647,4357	10,22881,21396 17,31122	26:24
43	86100,84424,65127 8,87789,29517	1 69293,01026 67,45472	1 96621,77733 58,07608	9,93500,74098,7182 4,47825,8889	10,22863,90274 17,30789	25:48
42	86091,96635,35610 8,88051,54630	1 69225,55554 67,41488	1 96563,70125 58,03580	9,93496,26272,8293 4,48004,3788	10,22846,59485 17,30456	25:12
41	86083,08583,80980 8,88313,77036	1 69158,14066 67,37508	1 96505,66545 57,99556	9,93491,78268,4505 4,48182,9056	10,22829,29029 17,30124	24:36
40	86074,20270,03944 8,88575,96739	1 69090,76558 67,33533	1 96447,66989 57,95536	9,93487,30085,5449 4,48361,4693	10,22811,98905 17,29792	24: 0
39	86065,31694,07205 8,88838,13733	1 69023,43025 67,29561	1 96389,71453 57,91519	9,93482,81724,0756 4,48540,0698	10,22794,69113 17,29461	23:24
38	86056,42855,93472 8,89100,28020	1 68956,13464 67,25594	1 96331,79934 57,87507	9,93478,33184,0058 4,48718,7072	10,22777,39652 17,29129	22:48
37	86047,53755,65452 8,89362,39599	1 68888,87870 67,21630	1 96273,92427 57,83498	9,93473,84465,2986 4,48897,3815	10,22760,10523 17,28798	22:12
36	86038,64393,25853 8,89624,48468	1 68821,66240 67,17669	1 96216,08929 57,79493	9,93469,35567,9171 4,49076,0928	10,22742,81725 17,28468	21:36
35	86029,74768,77385 8,89886,54628	1 68754,48571 67,13714	1 96158,29436 57,75493	9,93464,86491,8243 4,49254,8410	10,22725,53257 17,28137	21: 0
34	86020,84882,22757 8,90148,58078	1 68687,34857 67,09762	1 96100,53943 57,71495	9,93460,37236,9833 4,49433,6262	10,22708,25120 17,27807	20:24

GRAD. 59.

30. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	51009,26303,51456	59304,85777	1 16262,91823	9,70764,90490,3439	9,77309,02687	40:12
	15,01113,97790	23,59418	12,03699	12,77865,1801	17,27478	
68	51024,27417,49246	59328,45195	1 16274,95522	9,70777,68355,5240	9,77326,30165	40:48
	15,00958,54907	23,59906	12,04302	12,77357,0377	17,27148	
69	51039,28376,04153	59352,05101	1 16286,99824	9,70790,45712,5617	9,77343,57313	41:24
	15,00803,07453	23,60395	12,04905	12,76849,1942	17,26819	
70	51054,29179,11606	59375,65496	1 16299,04729	9,70803,22561,7559	9,77360,84132	42: 0
	15,00647,55426	23,60884	12,05510	12,76341,6492	17,26491	
71	51069,29826,67032	59399,26380	1 16311,10239	9,70815,98903,4051	9,77378,10623	42:36
	15,00491,98828	23,61374	12,06114	12,75834,4025	17,26163	
72	51084,30318,65860	59422,87754	1 16323,16353	9,70828,74737,8076	9,77395,36786	43:12
	15,00336,37659	23,61863	12,06719	12,75327,4536	17,25834	
73	51099,30655,03519	59446,49617	1 16335,23072	9,70841,50065,2612	9,77412,62620	43:48
	15,00180,71921	23,62354	12,07324	12,74820,8024	17,25507	
74	51114,30835,75440	59470,11971	1 16347,30396	9,70854,24886,0636	9,77429,88127	44:24
	15,00025,01612	23,62844	12,07929	12,74314,4487	17,25180	
75	51129,30860,77052	59493,74815	1 16359,38325	9,70866,99200,5123	9,77447,13307	45: 0
	14,99869,26734	23,63335	12,08534	12,73808,3918	17,24853	
76	51144,30730,03786	59517,38150	1 16371,46859	9,70879,73008,9041	9,77464,38160	45:36
	14,99713,47287	23,63826	12,09139	12,73302,6319	17,24526	
77	51159,30443,51073	59541,01976	1 16383,55998	9,70892,46311,5360	9,77481,62686	46:12
	14,99557,63272	23,64318	12,09746	12,72797,1684	17,24200	
78	51174,30001,14345	59564,66294	1 16395,65744	9,70905,19108,7044	9,77498,86886	46:48
	14,99401,74689	23,64809	12,10352	12,72292,0011	17,23874	
79	51189,29402,89034	59588,31103	1 16407,76096	9,70917,91400,7055	9,77516,10760	47:24
	14,99245,81538	23,65301	12,10958	12,71787,1296	17,23548	
80	51204,28648,70572	59611,96404	1 16419,87054	9,70930,63187,8351	9,77533,34308	48: 0
	14,99089,83820	23,65793	12,11565	12,71282,5538	17,23223	
81	51219,27738,54392	59635,62197	1 16431,98619	9,70943,34470,3889	9,77550,57531	48:36
	14,98933,81536	23,66286	12,12172	12,70778,2733	17,22898	
82	51234,26672,35928	59659,28483	1 16444,10791	9,70956,05248,6622	9,77567,80429	49:12
	14,98777,74686	23,66778	12,12779	12,70274,2879	17,22574	
83	51249,25450,10614	59682,95261	1 16456,23570	9,70968,75522,9501	9,77585,03003	49:48
	14,98621,63271	23,67272	12,13386	12,69770,5971	17,22249	
84	51264,24071,73885	59706,62533	1 16468,36956	9,70981,45293,5472	9,77602,25252	50:24
	14,98465,47290	23,67765	12,13994	12,69267,2008	17,21925	
85	51279,22537,21175	59730,30298	1 16480,50950	9,70994,14560,7480	9,77619,47177	51: 0
	14,98309,26745	23,68259	12,14603	12,68764,0987	17,21602	
86	51294,20846,47920	59753,98557	1 16492,65553	9,71006,83324,8467	9,77636,68779	51:36
	14,98153,01635	23,68753	12,15210	12,68261,2905	17,21278	
87	51309,18999,49555	59777,67310	1 16504,80763	9,71019,51586,1372	9,77653,90057	52:12
	14,97996,71962	23,69247	12,15819	12,67758,7758	17,20956	
88	51324,16996,21517	59801,36557	1 16516,96582	9,71032,19344,9130	9,77671,11013	52:48
	14,97840,37726	23,69742	12,16428	12,67256,5543	17,20633	
89	51339,14836,59243	59825,06299	1 16529,13010	9,71044,86601,4673	9,77688,31646	53:24
	14,97683,98927	23,70237	12,17037	12,66754,6261	17,20310	
90	51354,12520,58170	59848,76536	1 16541,30047	9,71057,53356,0934	9,77705,51956	54: 0
	14,97527,55566	23,70732	12,17646	12,66252,9903	17,19989	
91	51369,10048,13736	59872,47268	1 16553,47693	9,71070,19609,0837	9,77722,71945	54:36
	14,97371,07643	23,71227	12,18256	12,65751,6472	17,19667	
92	51384,07419,21379	59896,18495	1 16565,65949	9,71082,85360,7309	9,77739,91612	55:12
	14,97214,55160	23,71724	12,18866	12,65250,5960	17,19346	
93	51399,04633,76539	59919,90219	1 16577,84815	9,71095,50611,3269	9,77757,10958	55:48
	14,97057,98114	23,72219	12,19475	12,64749,8369	17,19024	
94	51414,01691,74653	59943,62438	1 16590,04290	9,71108,15361,1638	9,77774,29982	56:24
	14,96901,36509	23,72716	12,20086	12,64249,3692	17,18704	
95	51428,98593,11162	59967,35154	1 16602,24376	9,71120,79610,5330	9,77791,48686	57: 0
	14,96744,70344	23,73213	12,20697	12,63749,1929	17,18384	
96	51443,95337,81506	59991,08367	1 16614,45073	9,71133,43359,7259	9,77808,67070	57:36
	14,96587,99620	23,73709	12,21308	12,63249,3076	17,18064	
97	51458,91925,81126	60014,82076	1 16626,66381	9,71146,06609,0335	9,77825,85134	58:12
	14,96431,24337	23,74207	12,21919	12,62749,7129	17,17744	
98	51473,88357,05463	60038,56283	1 16638,88300	9,71158,69358,7464	9,77843,02878	58:48
	14,96274,44495	23,74705	12,22530	12,62250,4088	17,17425	
99	51488,84631,49958	60062,30988	1 16651,10830	9,71171,31609,1552	9,77860,20303	59:24
	14,96117,60096	23,75202	12,23142	12,61751,3947	17,17106	
100	51503,80749,10054	60086,06190	1 16663,33972	9,71183,93360,5499	9,77877,37409	60: 0
	14,95960,71139	23,75701	12,23754	12,61252,6706	17,16787	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	86011,94733,64679 8,90410,58814	1 68620,25095 67,05814	1 96042,82448 57,67503	9,93455,87803,3571 4,49612,4485	10,22690,97313 17,27478	19:48
32	86003,04323,05865 8,90672,56840	1 68553,19281 67,01869	1 95985,14945 57,63513	9,93451,38190,9086 4,49791,3077	10,22673,69835 17,27148	19:12
31	85994,13650,49025 8,90934,52152	1 68486,17412 66,97929	1 95927,51432 57,59528	9,93446,88399,6009 4,49970,2040	10,22656,42687 17,26819	18:36
30	85985,22715,96873 8,91196,44749	1 68419,19483 66,93993	1 95869,91904 57,55546	9,93442,38429,3969 4,50149,1374	10,22639,15868 17,26491	18: 0
29	85976,31519,52124 8,91458,34633	1 68352,25490 66,90060	1 95812,36358 57,51569	9,93437,88280,2595 4,50328,1079	10,22621,89377 17,26163	17:24
28	85967,40061,17491 8,91720,21800	1 68285,35430 66,86131	1 95754,84789 57,47595	9,93433,37952,1516 4,50507,1155	10,22604,63214 17,25834	16:48
27	85958,48340,95691 8,91982,06252	1 68218,49299 66,82206	1 95697,37194 57,43625	9,93428,87445,0361 4,50686,1602	10,22587,37380 17,25507	16:12
26	85949,56358,89439 8,92243,87986	1 68151,67093 66,78285	1 95639,93569 57,39659	9,93424,36758,8759 4,50865,2421	10,22570,11873 17,25180	15:36
25	85940,64115,01453 8,92505,67003	1 68084,88808 66,74368	1 95582,53910 57,35697	9,93419,85893,6338 4,51044,3612	10,22552,86693 17,24853	15: 0
24	85931,71609,34450 8,92767,43300	1 68018,14440 66,70454	1 95525,18213 57,31738	9,93415,34849,2726 4,51223,5175	10,22535,61840 17,24526	14:24
23	85922,78841,91150 8,93029,16878	1 67951,43986 66,66546	1 95467,86475 57,27784	9,93410,83625,7551 4,51402,7111	10,22518,37314 17,24200	13:48
22	85913,85812,74272 8,93290,87735	1 67884,77440 66,62639	1 95410,58691 57,23833	9,93406,32223,0440 4,51581,9418	10,22501,13114 17,23874	13:12
21	85904,92521,86537 8,93552,55873	1 67818,14801 66,58738	1 95353,34858 57,19886	9,93401,80641,1022 4,51761,2099	10,22483,89240 17,23548	12:36
20	85895,98969,30664 8,93814,21287	1 67751,56063 66,54839	1 95296,14972 57,15943	9,93397,28879,8923 4,51940,5152	10,22466,65692 17,23223	12: 0
19	85887,05155,09377 8,94075,83979	1 67685,01224 66,50946	1 95238,99029 57,12004	9,93392,76939,3771 4,52119,8579	10,22449,42469 17,22898	11:24
18	85878,11079,25398 8,94337,43947	1 67618,50278 66,47055	1 95181,87025 57,08068	9,93388,24819,5192 4,52299,2380	10,22432,19571 17,22574	10:48
17	85869,16741,81451 8,94599,01192	1 67552,03223 66,43169	1 95124,78957 57,04137	9,93383,72520,2812 4,52478,6553	10,22414,96997 17,22249	10:12
16	85860,22142,80259 8,94860,55710	1 67485,60054 66,39286	1 95067,74820 57,00209	9,93379,20041,6259 4,52658,1101	10,22397,74748 17,21925	9:36
15	85851,27282,24549 8,95122,07504	1 67419,20768 66,35407	1 95010,74611 56,96284	9,93374,67383,5158 4,52837,6024	10,22380,52823 17,21602	9: 0
14	85842,32160,17045 8,95383,56570	1 67352,85361 66,31532	1 94953,78327 56,92364	9,93370,14545,9134 4,53017,1319	10,22363,31221 17,21278	8:24
13	85833,36776,60475 8,95645,02909	1 67286,53829 66,27661	1 94896,85963 56,88448	9,93365,61528,7815 4,53196,6991	10,22346,09943 17,20956	7:48
12	85824,41131,57566 8,95906,46520	1 67220,26168 66,23793	1 94839,97515 56,84535	9,93361,08332,0824 4,53376,3036	10,22328,88987 17,20633	7:12
11	85815,45225,11046 8,96167,87401	1 67154,02375 66,19930	1 94783,12980 56,80626	9,93356,54955,7788 4,53555,9457	10,22311,68354 17,20310	6:36
10	85806,49057,23645 8,96429,25554	1 67087,82445 66,16070	1 94726,32354 56,76721	9,93352,01399,8331 4,53735,6253	10,22294,48044 17,19989	6: 0
9	85797,52627,98091 8,96690,60974	1 67021,66375 66,12213	1 94669,55633 56,72819	9,93347,47664,2078 4,53915,3424	10,22277,28055 17,19667	5:24
8	85788,55937,37117 8,96951,93663	1 66955,54162 66,08361	1 94612,82814 56,68921	9,93342,93748,8654 4,54095,0972	10,22260,08388 17,19346	4:48
7	85779,58985,43454 8,97213,23621	1 66889,45801 66,04513	1 94556,13893 56,65028	9,93338,39653,7682 4,54274,8895	10,22242,89042 17,19024	4:12
6	85770,61772,19833 8,97474,50845	1 66823,41288 66,00667	1 94499,48865 56,61137	9,93333,85378,8787 4,54454,7194	10,22225,70018 17,18704	3:36
5	85761,64297,68988 8,97735,75336	1 66757,40621 65,96827	1 94442,87728 56,57251	9,93329,30924,1593 4,54634,5870	10,22208,51314 17,18384	3: 0
4	85752,66561,93652 8,97996,97091	1 66691,43794 65,92989	1 94386,30477 56,53368	9,93324,76289,5723 4,54814,4922	10,22191,32930 17,18064	2:24
3	85743,68564,96561 8,98258,16111	1 66625,50805 65,89156	1 94329,77109 56,49489	9,93320,21475,0801 4,54994,4351	10,22174,14866 17,17744	1:48
2	85734,70306,80450 8,98519,32395	1 66559,61649 65,85326	1 94273,27620 56,45614	9,93315,66480,6450 4,55174,4157	10,22156,97122 17,17425	1:12
1	85725,71787,48055 8,98780,45943	1 66493,76323 65,81499	1 94216,82006 56,41742	9,93311,11306,2293 4,55354,4341	10,22139,79697 17,17106	0:36
0	85716,73007,02112 8,99041,56751	1 66427,94824 65,77678	1 94160,40264 56,37874	9,93306,55951,7952 4,55534,4903	10,22122,62591 17,16787	0: 0

GRAD. 59.

31. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	51503,80749,10054	60086,06190	1 16663,33972	9,71183,93360,5499	9,77877,37409	0: 0
	14,95960,71139	23,75701	12,23754	12,61252,6706	17,16787	
1	51518,76709,81193	60109,81891	1 16675,57726	9,71196,54613,2205	9,77894,54196	0:36
	14,95803,77625	23,76199	12,24366	12,60754,2361	17,16469	
2	51533,72513,58818	60133,58090	1 16687,82092	9,71209,15367,4566	9,77911,70665	1:12
	14,95646,79555	23,76698	12,24979	12,60256,0908	17,16151	
3	51548,68160,38373	60157,34788	1 16700,07071	9,71221,75623,5474	9,77928,86816	1:48
	14,95489,76928	23,77198	12,25592	12,59758,2345	17,15833	
4	51563,63650,15301	60181,11986	1 16712,32663	9,71234,35381,7819	9,77946,02649	2:24
	14,95332,69746	23,77696	12,26204	12,59260,6671	17,15515	
5	51578,58982,85047	60204,89682	1 16724,58867	9,71246,94642,4490	9,77963,18164	3: 0
	14,95175,58010	23,78197	12,26818	12,58763,3881	17,15199	
6	51593,54158,43057	60228,67879	1 16736,85685	9,71259,53405,8371	9,77980,33363	3:36
	14,95018,41718	23,78696	12,27432	12,58266,3972	17,14882	
7	51608,49176,84775	60252,46575	1 16749,13117	9,71272,11672,2343	9,77997,48245	4:12
	14,94861,20873	23,79197	12,28045	12,57769,6943	17,14566	
8	51623,44038,05648	60276,25772	1 16761,41162	9,71284,69441,9286	9,78014,62811	4:48
	14,94703,95473	23,79697	12,28660	12,57273,2790	17,14249	
9	51638,38742,01121	60300,05469	1 16773,69822	9,71297,26715,2076	9,78031,77060	5:24
	14,94546,65521	23,80198	12,29274	12,56777,1510	17,13934	
10	51653,33288,66642	60323,85667	1 16785,99096	9,71309,83492,3586	9,78048,90994	6: 0
	14,94389,31016	23,80700	12,29888	12,56281,3100	17,13619	
11	51668,27677,97658	60347,66367	1 16798,28984	9,71322,39773,6686	9,78066,04613	6:36
	14,94231,91959	23,81201	12,30504	12,55785,7559	17,13303	
12	51683,21909,89617	60371,47568	1 16810,59488	9,71334,95559,4245	9,78083,17916	7:12
	14,94074,48350	23,81703	12,31119	12,55290,4883	17,12989	
13	51698,15984,37967	60395,29271	1 16822,90607	9,71347,50849,9128	9,78100,30905	7:48
	14,93917,00190	23,82205	12,31734	12,54795,5068	17,12674	
14	51713,09901,38157	60419,11476	1 16835,22341	9,71360,05645,4196	9,78117,43579	8:24
	14,93759,47480	23,82708	12,32350	12,54300,8114	17,12360	
15	51728,03660,85637	60442,94184	1 16847,54691	9,71372,59946,2310	9,78134,55939	9: 0
	14,93601,90218	23,83210	12,32966	12,53806,4016	17,12046	
16	51742,97262,75855	60466,77394	1 16859,87657	9,71385,13752,6326	9,78151,67985	9:36
	14,93444,28408	23,83714	12,33582	12,53312,2771	17,11733	
17	51757,90707,04263	60490,61108	1 16872,21239	9,71397,67064,9097	9,78168,79718	10:12
	14,93286,62047	23,84217	12,34199	12,52818,4379	17,11420	
18	51772,83993,66310	60514,45325	1 16884,55438	9,71410,19883,3476	9,78185,91138	10:48
	14,93128,91139	23,84720	12,34815	12,52324,8833	17,11107	
19	51787,77122,57449	60538,30045	1 16896,90253	9,71422,72208,2309	9,78203,02245	11:24
	14,92971,15681	23,85225	12,35433	12,51831,6135	17,10794	
20	51802,70093,73130	60562,15270	1 16909,25686	9,71435,24039,8444	9,78220,13039	12: 0
	14,92813,35677	23,85729	12,36050	12,51338,6278	17,10482	
21	51817,62907,08807	60586,00999	1 16921,61736	9,71447,75378,4722	9,78237,23521	12:36
	14,92655,51124	23,86233	12,36668	12,50845,9262	17,10170	
22	51832,55562,59931	60609,87232	1 16933,98404	9,71460,26224,3984	9,78254,33691	13:12
	14,92497,62024	23,86739	12,37285	12,50353,5084	17,09859	
23	51847,48060,21955	60633,73971	1 16946,35689	9,71472,76577,9068	9,78271,43550	13:48
	14,92339,68379	23,87243	12,37904	12,49861,3739	17,09548	
24	51862,40399,90334	60657,61214	1 16958,73593	9,71485,26439,2807	9,78288,53098	14:24
	14,92181,70187	23,87749	12,38522	12,49369,5226	17,09237	
25	51877,32581,60521	60681,48963	1 16971,12115	9,71497,75808,8033	9,78305,62335	15: 0
	14,92023,67451	23,88255	12,39141	12,48877,9543	17,08926	
26	51892,24605,27972	60705,37218	1 16983,51256	9,71510,24686,7576	9,78322,71261	15:36
	14,91865,60168	23,88761	12,39760	12,48386,6686	17,08616	
27	51907,16470,88140	60729,25979	1 16995,91016	9,71522,73073,4262	9,78339,79877	16:12
	14,91707,48341	23,89268	12,40379	12,47895,6652	17,08306	
28	51922,08178,36481	60753,15247	1 17008,31395	9,71535,20969,0914	9,78356,88183	16:48
	14,91549,31971	23,89774	12,40999	12,47404,9440	17,07996	
29	51936,99727,68452	60777,05021	1 17020,72394	9,71547,68374,0354	9,78373,96179	17:24
	14,91391,11057	23,90281	12,41619	12,46914,5046	17,07687	
30	51951,91118,79509	60800,95302	1 17033,14013	9,71560,15288,5400	9,78391,03866	18: 0
	14,91232,85600	23,90789	12,42238	12,46424,3466	17,07379	
31	51966,82351,65109	60824,86091	1 17045,56251	9,71572,61712,8866	9,78408,11245	18:36
	14,91074,55600	23,91296	12,42859	12,45934,4700	17,07069	
32	51981,73426,20709	60848,77387	1 17057,99110	9,71585,07647,3566	9,78425,18314	19:12
	14,90916,21059	23,91804	12,43480	12,45444,8744	17,06761	
33	51996,64342,41768	60872,69191	1 17070,42590	9,71597,53092,2310	9,78442,25075	19:48
	14,90757,81975	23,92313	12,44101	12,44955,5595	17,06454	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	85716,73007,02112 8,99041,56751	1 66427,94824 65,77678	1 94160,40264 56,37874	9,93306,55951,7952 4,55534,4903	10,22122,62591 17,16787	60: 0
99	85707,73965,45361 8,99302,64822	1 66362,17146 65,73859	1 94104,02390 56,34010	9,93302,00417,3049 4,55714,5841	10,22105,45804 17,16469	59:24
98	85698,74662,80539 8,99563,70153	1 66296,43287 65,70043	1 94047,68380 56,30150	9,93297,44702,7208 4,55894,7157	10,22088,29335 17,16151	58:48
97	85689,75099,10386 8,99824,72743	1 66230,73244 65,66233	1 93991,38230 56,26293	9,93292,88808,0051 4,56074,8853	10,22071,13184 17,15833	58:12
96	85680,75274,37643 9,00085,72593	1 66165,07011 65,62425	1 93935,11937 56,22440	9,93288,32733,1198 4,56255,0927	10,22053,97351 17,15515	57:36
95	85671,75188,65050 9,00346,69702	1 66099,44586 65,58622	1 93878,89497 56,18591	9,93283,76478,0271 4,56435,3378	10,22036,81836 17,15199	57: 0
94	85662,74841,95348 9,00607,64066	1 66033,85964 65,54821	1 93822,70906 56,14745	9,93279,20042,6893 4,56615,6210	10,22019,66637 17,14882	56:24
93	85653,74234,31282 9,00868,55689	1 65968,31143 65,51025	1 93766,56161 56,10903	9,93274,63427,0683 4,56795,9420	10,22002,51755 17,14566	55:48
92	85644,73365,75593 9,01129,44566	1 65902,80118 65,47232	1 93710,45258 56,07064	9,93270,06631,1263 4,56976,3010	10,21985,37189 17,14249	55:12
91	85635,72236,31027 9,01390,30699	1 65837,32886 65,43443	1 93654,38194 56,03231	9,93265,49654,8253 4,57156,6978	10,21968,22940 17,13934	54:36
90	85626,70846,00328 9,01651,14086	1 65771,89443 65,39658	1 93598,34963 55,99399	9,93260,92498,1275 4,57337,1328	10,21951,09006 17,13619	54: 0
89	85617,69194,86242 9,01911,94726	1 65706,49785 65,35877	1 93542,35564 55,95571	9,93256,35160,9947 4,57517,6057	10,21933,95387 17,13303	53:24
88	85608,67282,91516 9,02172,72619	1 65641,13908 65,32098	1 93486,39993 55,91749	9,93251,77643,3890 4,57698,1166	10,21916,82084 17,12989	52:48
87	85599,65110,18897 9,02433,47764	1 65575,81810 65,28325	1 93430,48244 55,87928	9,93247,19945,2724 4,57878,6657	10,21899,69095 17,12674	52:12
86	85590,62676,71133 9,02694,20160	1 65510,53485 65,24553	1 93374,60316 55,84112	9,93242,62066,6067 4,58059,2526	10,21882,56421 17,12360	51:36
85	85581,59982,50973 9,02954,89806	1 65445,28932 65,20787	1 93318,76204 55,80299	9,93238,04007,3541 4,58239,8779	10,21865,44061 17,12046	51: 0
84	85572,57027,61167 9,03215,56701	1 65380,08145 65,17023	1 93262,95905 55,76490	9,93233,45767,4762 4,58420,5411	10,21848,32015 17,11733	50:24
83	85563,53812,04466 9,03476,20845	1 65314,91122 65,13264	1 93207,19415 55,72685	9,93228,87346,9351 4,58601,2426	10,21831,20282 17,11420	49:48
82	85554,50335,83621 9,03736,82238	1 65249,77858 65,09508	1 93151,46730 55,68883	9,93224,28745,6925 4,58781,9821	10,21814,08862 17,11107	49:12
81	85545,46599,01383 9,03997,40876	1 65184,68350 65,05756	1 93095,77847 55,65085	9,93219,69963,7104 4,58962,7599	10,21796,97755 17,10794	48:36
80	85536,42601,60507 9,04257,96762	1 65119,62594 65,02007	1 93040,12762 55,61290	9,93215,11000,9505 4,59143,5760	10,21779,86961 17,10482	48: 0
79	85527,38343,63745 9,04518,49893	1 65054,60587 64,98261	1 92984,51472 55,57500	9,93210,51857,3745 4,59324,4301	10,21762,76479 17,10170	47:24
78	85518,33825,13852 9,04779,00268	1 64989,62326 64,94521	1 92928,93972 55,53712	9,93205,92532,9444 4,59505,3227	10,21745,66309 17,09859	46:48
77	85509,29046,13584 9,05039,47887	1 64924,67805 64,90782	1 92873,40260 55,49928	9,93201,33027,6217 4,59686,2534	10,21728,56450 17,09548	46:12
76	85500,24006,65697 9,05299,92750	1 64859,77023 64,87049	1 92817,90332 55,46149	9,93196,73341,3683 4,59867,2225	10,21711,46902 17,09237	45:36
75	85491,18706,72947 9,05560,34855	1 64794,89974 64,83318	1 92762,44183 55,42372	9,93192,13474,1458 4,60048,2299	10,21694,37665 17,08926	45: 0
74	85482,13146,38092 9,05820,74201	1 64730,06656 64,79591	1 92707,01811 55,38599	9,93187,53425,9159 4,60229,2757	10,21677,28739 17,08616	44:24
73	85473,07325,63891 9,06081,10788	1 64665,27065 64,75867	1 92651,63212 55,34829	9,93182,93196,6402 4,60410,3599	10,21660,20123 17,08306	43:48
72	85464,01244,53103 9,06341,44615	1 64600,51198 64,72148	1 92596,28383 55,31064	9,93178,32786,2803 4,60591,4823	10,21643,11817 17,07996	43:12
71	85454,94903,08488 9,06601,75681	1 64535,79050 64,68432	1 92540,97319 55,27302	9,93173,72194,7980 4,60772,6433	10,21626,03821 17,07687	42:36
70	85445,88301,32807 9,06862,03985	1 64471,10618 64,64719	1 92485,70017 55,23544	9,93169,11422,1547 4,60953,8428	10,21608,96134 17,07379	42: 0
69	85436,81439,28822 9,07122,29527	1 64406,45899 64,61010	1 92430,46473 55,19788	9,93164,50468,3119 4,61135,0806	10,21591,88755 17,07069	41:24
68	85427,74316,99295 9,07382,52306	1 64341,84889 64,57305	1 92375,26685 55,16037	9,93159,89333,2313 4,61316,3569	10,21574,81686 17,06761	40:48
67	85418,66934,46989 9,07642,72320	1 64277,27584 64,53603	1 92320,10648 55,12289	9,93155,28016,8744 4,61497,6719	10,21557,74925 17,06454	40:12

GRAD. 58.

31. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	51996,64342,41768 14,90757,81975	60872,69191 23,92313	1 17070,42590 12,44101	9,71597,53092,2310 12,44955,5595	9,78442,25075 17,06454	19:48
34	52011,55100,23743 14,90599,38351	60896,61504 23,92821	1 17082,86691 12,44721	9,71609,98047,7905 12,44466,5250	9,78459,31529 17,06145	20:24
35	52026,45699,62094 14,90440,90186	60920,54325 23,93330	1 17095,31412 12,45343	9,71622,42514,3155 12,43977,7707	9,78476,37674 17,05838	21: 0
36	52041,36140,52280 14,90282,37480	60944,47655 23,93839	1 17107,76755 12,45965	9,71634,86492,0862 12,43489,2964	9,78493,43512 17,05531	21:36
37	52056,26422,89760 14,90123,80236	60968,41494 23,94349	1 17120,22720 12,46587	9,71647,29981,3826 12,43001,1017	9,78510,49043 17,05225	22:12
38	52071,16546,69996 14,89965,18451	60992,35843 23,94858	1 17132,69307 12,47209	9,71659,72982,4843 12,42513,1863	9,78527,54268 17,04918	22:48
39	52086,06511,88447 14,89806,52129	61016,30701 23,95369	1 17145,16516 12,47832	9,71672,15495,6706 12,42025,5501	9,78544,59186 17,04612	23:24
40	52100,96318,40576 14,89647,81268	61040,26070 23,95879	1 17157,64348 12,48455	9,71684,57521,2207 12,41538,1927	9,78561,63798 17,04306	24: 0
41	52115,85966,21844 14,89489,05870	61064,21949 23,96390	1 17170,12803 12,49077	9,71696,99059,4134 12,41051,1139	9,78578,68104 17,04001	24:36
42	52130,75455,27714 14,89330,25933	61088,18339 23,96901	1 17182,61880 12,49701	9,71709,40110,5273 12,40564,3133	9,78595,72105 17,03695	25:12
43	52145,64785,53647 14,89171,41461	61112,15240 23,97412	1 17195,11581 12,50325	9,71721,80674,8406 12,40077,7909	9,78612,75800 17,03391	25:48
44	52160,53956,95108 14,89012,52452	61136,12652 23,97924	1 17207,61906 12,50949	9,71734,20752,6315 12,39591,5461	9,78629,79191 17,03086	26:24
45	52175,42969,47560 14,88853,58907	61160,10576 23,98436	1 17220,12855 12,51572	9,71746,60344,1776 12,39105,5789	9,78646,82277 17,02782	27: 0
46	52190,31823,06467 14,88694,60827	61184,09012 23,98948	1 17232,64427 12,52198	9,71758,99449,7565 12,38619,8888	9,78663,85059 17,02478	27:36
47	52205,20517,67294 14,88535,58212	61208,07960 23,99461	1 17245,16625 12,52822	9,71771,38069,6453 12,38134,4758	9,78680,87537 17,02175	28:12
48	52220,09053,25506 14,88376,51063	61232,07421 23,99973	1 17257,69447 12,53447	9,71783,76204,1211 12,37649,3394	9,78697,89712 17,01871	28:48
49	52234,97429,76569 14,88217,39380	61256,07394 24,00487	1 17270,22894 12,54072	9,71796,13853,4605 12,37164,4795	9,78714,91583 17,01569	29:24
50	52249,85647,15949 14,88058,23163	61280,07881 24,01001	1 17282,76966 12,54698	9,71808,51017,9400 12,36679,8957	9,78731,93152 17,01266	30: 0
51	52264,73705,39112 14,87899,02415	61304,08882 24,01514	1 17295,31664 12,55324	9,71820,87697,8357 12,36195,5879	9,78748,94418 17,00963	30:36
52	52279,61604,41527 14,87739,77132	61328,10396 24,02029	1 17307,86988 12,55950	9,71833,23893,4236 12,35711,5556	9,78765,95381 17,00662	31:12
53	52294,49344,18659 14,87580,47319	61352,12425 24,02543	1 17320,42938 12,56576	9,71845,59604,9792 12,35227,7988	9,78782,96043 17,00360	31:48
54	52309,36924,65978 14,87421,12974	61376,14968 24,03058	1 17332,99514 12,57203	9,71857,94832,7780 12,34744,3170	9,78799,96403 17,00058	32:24
55	52324,24345,78952 14,87261,74098	61400,18026 24,03572	1 17345,56717 12,57830	9,71870,29577,0950 12,34261,1100	9,78816,96461 16,99758	33: 0
56	52339,11607,53050 14,87102,30691	61424,21598 24,04089	1 17358,14547 12,58458	9,71882,63838,2050 12,33778,1777	9,78833,96219 16,99456	33:36
57	52353,98709,83741 14,86942,82755	61448,25687 24,04604	1 17370,73005 12,59085	9,71894,97616,3827 12,33295,5197	9,78850,95675 16,99157	34:12
58	52368,85652,66496 14,86783,30289	61472,30291 24,05120	1 17383,32090 12,59712	9,71907,30911,9024 12,32813,1357	9,78867,94832 16,98856	34:48
59	52383,72435,96785 14,86623,73294	61496,35411 24,05636	1 17395,91802 12,60341	9,71919,63725,0381 12,32331,0255	9,78884,93688 16,98557	35:24
60	52398,59059,70079 14,86464,11771	61520,41047 24,06153	1 17408,52143 12,60969	9,71931,96056,0636 12,31849,1888	9,78901,92245 16,98257	36: 0
61	52413,45523,81850 14,86304,45719	61544,47200 24,06670	1 17421,13112 12,61598	9,71944,27905,2524 12,31367,6254	9,78918,90502 16,97957	36:36
62	52428,31828,27569 14,86144,75140	61568,53870 24,07187	1 17433,74710 12,62227	9,71956,59272,8778 12,30886,3349	9,78935,88459 16,97659	37:12
63	52443,17973,02709 14,85985,00035	61592,61057 24,07705	1 17446,36937 12,62855	9,71968,90159,2127 12,30405,3173	9,78952,86118 16,97361	37:48
64	52458,03958,02744 14,85825,20401	61616,68762 24,08223	1 17458,99792 12,63486	9,71981,20564,5300 12,29924,5722	9,78969,83479 16,97062	38:24
65	52472,89783,23145 14,85665,36243	61640,76985 24,08741	1 17471,63278 12,64115	9,71993,50489,1022 12,29444,0991	9,78986,80541 16,96764	39: 0
66	52487,75448,59388 14,85505,47559	61664,85726 24,09260	1 17484,27393 12,64745	9,72005,79933,2013 12,28963,8981	9,79003,77305 16,96467	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	85418,66934,46989 9,07642,72320	1 64277,27584 64,53603	1 92320,10648 55,12289	9,93155,28016,8744 4,61497,6719	10,21557,74925 17,06454	40:12
66	85409,59291,74669 9,07902,89570	1 64212,73981 64,49905	1 92264,98359 55,08545	9,93150,66519,2025 4,61679,0252	10,21540,68471 17,06145	39:36
65	85400,51388,85099 9,08163,04054	1 64148,24076 64,46210	1 92209,89814 55,04804	9,93146,04840,1773 4,61860,4173	10,21523,62326 17,05838	39: 0
64	85391,43225,81045 9,08423,15772	1 64083,77866 64,42519	1 92154,85010 55,01066	9,93141,42979,7600 4,62041,8478	10,21506,56488 17,05531	38:24
63	85382,34802,65273 9,08683,24722	1 64019,35347 64,38832	1 92099,83944 54,97334	9,93136,80937,9122 4,62223,3170	10,21489,50957 17,05225	37:48
62	85373,26119,40551 9,08943,30905	1 63954,96515 64,35148	1 92044,86610 54,93603	9,93132,18714,5952 4,62404,8248	10,21472,45732 17,04918	37:12
61	85364,17176,09646 9,09203,34319	1 63890,61367 64,31467	1 91989,93007 54,89876	9,93127,56309,7704 4,62586,3712	10,21455,40814 17,04612	36:36
60	85355,07972,75327 9,09463,34962	1 63826,29900 64,27790	1 91935,03131 54,86153	9,93122,93723,3992 4,62767,9564	10,21438,36202 17,04306	36: 0
59	85345,98509,40365 9,09723,32836	1 63762,02110 64,24118	1 91880,16978 54,82434	9,93118,30955,4428 4,62949,5803	10,21421,31896 17,04001	35:24
58	85336,88786,07529 9,09983,27939	1 63697,77992 64,20447	1 91825,34544 54,78718	9,93113,68005,8625 4,63131,2428	10,21404,27895 17,03695	34:48
57	85327,78802,79590 9,10243,20270	1 63633,57545 64,16781	1 91770,55826 54,75005	9,93109,04874,6197 4,63312,9441	10,21387,24200 17,03391	34:12
56	85318,68559,59320 9,10503,09827	1 63569,40764 64,13118	1 91715,80821 54,71297	9,93104,41561,6756 4,63494,6842	10,21370,20809 17,03086	33:36
55	85309,58056,49493 9,10762,96611	1 63505,27646 64,09459	1 91661,09524 54,67591	9,93099,78066,9914 4,63676,4631	10,21353,17723 17,02782	33: 0
54	85300,47293,52882 9,11022,80622	1 63441,18187 64,05804	1 91606,41933 54,63889	9,93095,14390,5283 4,63858,2808	10,21336,14941 17,02478	32:24
53	85291,36270,72260 9,11282,61856	1 63377,12383 64,02151	1 91551,78044 54,60190	9,93090,50532,2475 4,64040,1374	10,21319,12463 17,02175	31:48
52	85282,24988,10404 9,11542,40315	1 63313,10232 63,98503	1 91497,17854 54,56496	9,93085,86492,1101 4,64222,0327	10,21302,10288 17,01871	31:12
51	85273,13445,70089 9,11802,15997	1 63249,11729 63,94858	1 91442,61358 54,52804	9,93081,22270,0774 4,64403,9671	10,21285,08417 17,01569	30:36
50	85264,01643,54092 9,12061,88901	1 63185,16871 63,91216	1 91388,08554 54,49116	9,93076,57866,1103 4,64585,9403	10,21268,06848 17,01266	30: 0
49	85254,89581,65191 9,12321,59029	1 63121,25655 63,87578	1 91333,59438 54,45431	9,93071,93280,1700 4,64767,9525	10,21251,05582 17,00963	29:24
48	85245,77260,06162 9,12581,26375	1 63057,38077 63,83943	1 91279,14007 54,41751	9,93067,28512,2175 4,64950,0035	10,21234,04619 17,00662	28:48
47	85236,64678,79787 9,12840,90942	1 62993,54134 63,80312	1 91224,72256 54,38073	9,93062,63562,2140 4,65132,0937	10,21217,03957 17,00360	28:12
46	85227,51837,88845 9,13100,52730	1 62929,73822 63,76684	1 91170,34183 54,34398	9,93057,98430,1203 4,65314,2228	10,21200,03597 17,00058	27:36
45	85218,38737,36115 9,13360,11734	1 62865,97138 63,73060	1 91115,99785 54,30729	9,93053,33115,8975 4,65496,3909	10,21183,03539 16,99758	27: 0
44	85209,25377,24381 9,13619,67958	1 62802,24078 63,69440	1 91061,69056 54,27061	9,93048,67619,5066 4,65678,5981	10,21166,03781 16,99456	26:24
43	85200,11757,56423 9,13879,21397	1 62738,54638 63,65822	1 91007,41995 54,23397	9,93044,01940,9085 4,65860,8444	10,21149,04325 16,99157	25:48
42	85190,97878,35026 9,14138,72053	1 62674,88816 63,62209	1 90953,18598 54,19737	9,93039,36080,0641 4,66043,1298	10,21132,05168 16,98856	25:12
41	85181,83739,62973 9,14398,19925	1 62611,26607 63,58598	1 90898,98861 54,16080	9,93034,70036,9343 4,66225,4543	10,21115,06312 16,98557	24:36
40	85172,69341,43048 9,14657,65011	1 62547,68009 63,54992	1 90844,82781 54,12427	9,93030,03811,4800 4,66407,8179	10,21098,07755 16,98257	24: 0
39	85163,54683,78037 9,14917,07311	1 62484,13017 63,51388	1 90790,70354 54,08777	9,93025,37403,6621 4,66590,2208	10,21081,09498 16,97957	23:24
38	85154,39766,70726 9,15176,46824	1 62420,61629 63,47788	1 90736,61577 54,05130	9,93020,70813,4413 4,66772,6627	10,21064,11541 16,97659	22:48
37	85145,24590,23902 9,15435,83548	1 62357,13841 63,44191	1 90682,56447 54,01487	9,93016,04040,7786 4,66955,1441	10,21047,13882 16,97361	22:12
36	85136,09154,40354 9,15695,17486	1 62293,69650 63,40599	1 90628,54960 53,97848	9,93011,37085,6345 4,67137,6645	10,21030,16521 16,97062	21:36
35	85126,93459,22868 9,15954,48632	1 62230,29051 63,37009	1 90574,57112 53,94211	9,93006,69947,9700 4,67320,2243	10,21013,19459 16,96764	21: 0
34	85117,77504,74236 9,16213,76989	1 62166,92042 63,33423	1 90520,62901 53,90578	9,93002,02627,7457 4,67502,8234	10,20996,22695 16,96467	20:24

GRAD. 58.

31. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	52502,60954,06947	61688,94986	1 17496,92138	9,72018,08897,0994	9,79020,73772	40:12
	14,85345,54349	24,09778	12,65376	12,28483,9688	16,96170	
68	52517,46299,61296	61713,04764	1 17509,57514	9,72030,37381,0682	9,79037,69942	40:48
	14,85185,56615	24,10298	12,66006	12,28004,3109	16,95872	
69	52532,31485,17911	61737,15062	1 17522,23520	9,72042,65385,3791	9,79054,65814	41:24
	14,85025,54357	24,10817	12,66637	12,27524,9242	16,95576	
70	52547,16510,72268	61761,25879	1 17534,90157	9,72054,92910,3033	9,79071,61390	42: 0
	14,84865,47575	24,11336	12,67268	12,27045,8083	16,95279	
71	52562,01376,19843	61785,37215	1 17547,57425	9,72067,19956,1116	9,79088,56669	42:36
	14,84705,36270	24,11857	12,67900	12,26566,9633	16,94984	
72	52576,86081,56113	61809,49072	1 17560,25325	9,72079,46523,0749	9,79105,51653	43:12
	14,84545,20443	24,12378	12,68531	12,26088,3886	16,94687	
73	52591,70626,76556	61833,61450	1 17572,93856	9,72091,72611,4635	9,79122,46340	43:48
	14,84385,00092	24,12898	12,69164	12,25610,0839	16,94392	
74	52606,55011,76648	61857,74348	1 17585,63020	9,72103,98221,5474	9,79139,40732	44:24
	14,84224,75222	24,13419	12,69795	12,25132,0493	16,94098	
75	52621,39236,51870	61881,87767	1 17598,32815	9,72116,23353,5967	9,79156,34830	45: 0
	14,84064,45828	24,13941	12,70428	12,24654,2841	16,93802	
76	52636,23300,97698	61906,01708	1 17611,03243	9,72128,48007,8808	9,79173,28632	45:36
	14,83904,11915	24,14462	12,71062	12,24176,7885	16,93508	
77	52651,07205,09613	61930,16170	1 17623,74305	9,72140,72184,6693	9,79190,22140	46:12
	14,83743,73481	24,14984	12,71694	12,23699,5619	16,93213	
78	52665,90948,83094	61954,31154	1 17636,45999	9,72152,95884,2312	9,79207,15353	46:48
	14,83583,30528	24,15507	12,72328	12,23222,6042	16,92920	
79	52680,74532,13622	61978,46661	1 17649,18327	9,72165,19106,8354	9,79224,08273	47:24
	14,83422,83056	24,16029	12,72961	12,22745,9151	16,92626	
80	52695,57954,96678	62002,62690	1 17661,91288	9,72177,41852,7505	9,79241,00899	48: 0
	14,83262,31063	24,16552	12,73595	12,22269,4942	16,92333	
81	52710,41217,27741	62026,79242	1 17674,64883	9,72189,64122,2447	9,79257,93232	48:36
	14,83101,74554	24,17076	12,74230	12,21793,3416	16,92040	
82	52725,24319,02295	62050,96318	1 17687,39113	9,72201,85915,5863	9,79274,85272	49:12
	14,82941,13527	24,17599	12,74864	12,21317,4567	16,91747	
83	52740,07260,15822	62075,13917	1 17700,13977	9,72214,07233,0430	9,79291,77019	49:48
	14,82780,47982	24,18123	12,75500	12,20841,8395	16,91455	
84	52754,90040,63804	62099,32040	1 17712,89477	9,72226,28074,8825	9,79308,68474	50:24
	14,82619,77920	24,18647	12,76134	12,20366,4895	16,91163	
85	52769,72660,41724	62123,50687	1 17725,65611	9,72238,48441,3720	9,79325,59637	51: 0
	14,82459,03342	24,19172	12,76769	12,19891,4066	16,90871	
86	52784,55119,45066	62147,69859	1 17738,42380	9,72250,68332,7786	9,79342,50508	51:36
	14,82298,24249	24,19696	12,77406	12,19416,5906	16,90579	
87	52799,37417,69315	62171,89555	1 17751,19786	9,72262,87749,3692	9,79359,41087	52:12
	14,82137,40639	24,20222	12,78041	12,18942,0410	16,90289	
88	52814,19555,09954	62196,09777	1 17763,97827	9,72275,06691,4102	9,79376,31376	52:48
	14,81976,52516	24,20748	12,78678	12,18467,7579	16,89998	
89	52829,01531,62470	62220,30525	1 17776,76505	9,72287,25159,1681	9,79393,21374	53:24
	14,81815,59877	24,21273	12,79314	12,17993,7408	16,89707	
90	52843,83347,22347	62244,51798	1 17789,55819	9,72299,43152,9089	9,79410,11081	54: 0
	14,81654,62725	24,21799	12,79951	12,17519,9894	16,89417	
91	52858,65001,85072	62268,73597	1 17802,35770	9,72311,60672,8983	9,79427,00498	54:36
	14,81493,61060	24,22326	12,80588	12,17046,5037	16,89127	
92	52873,46495,46132	62292,95923	1 17815,16358	9,72323,77719,4020	9,79443,89625	55:12
	14,81332,54881	24,22852	12,81225	12,16573,2832	16,88838	
93	52888,27828,01013	62317,18775	1 17827,97583	9,72335,94292,6852	9,79460,78463	55:48
	14,81171,44190	24,23380	12,81864	12,16100,3278	16,88548	
94	52903,08999,45203	62341,42155	1 17840,79447	9,72348,10393,0130	9,79477,67011	56:24
	14,81010,28988	24,23907	12,82501	12,15627,6371	16,88259	
95	52917,90009,74191	62365,66062	1 17853,61948	9,72360,26020,6501	9,79494,55270	57: 0
	14,80849,09273	24,24434	12,83139	12,15155,2111	16,87971	
96	52932,70858,83464	62389,90496	1 17866,45087	9,72372,41175,8612	9,79511,43241	57:36
	14,80687,85048	24,24963	12,83778	12,14683,0493	16,87682	
97	52947,51546,68512	62414,15459	1 17879,28865	9,72384,55858,9105	9,79528,30923	58:12
	14,80526,56313	24,25491	12,84417	12,14211,1516	16,87394	
98	52962,32073,24825	62438,40950	1 17892,13282	9,72396,70070,0621	9,79545,18317	58:48
	14,80365,23067	24,26020	12,85056	12,13739,5176	16,87107	
99	52977,12438,47892	62462,66970	1 17904,98338	9,72408,83809,5797	9,79562,05424	59:24
	14,80203,85313	24,26549	12,85696	12,13268,1472	16,86819	
100	52991,92642,33205	62486,93519	1 17917,84034	9,72420,97077,7269	9,79578,92243	60: 0
	14,80042,43049	24,27078	12,86335	12,12797,0401	16,86531	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	85108,61290,97247	1 62103,58619	1 90466,72323	9,92997,35124,9223	10,20979,26228	19:48
	9,16473,02555	63,29840	53,86950	4,67685,4617	16,96170	
32	85099,44817,94692	1 62040,28779	1 90412,85373	9,92992,67439,4606	10,20962,30058	19:12
	9,16732,25330	63,26261	53,83323	4,67868,1394	16,95872	
31	85090,28085,69362	1 61977,02518	1 90359,02050	9,92987,99571,3212	10,20945,34186	18:36
	9,16991,45311	63,22685	53,79700	4,68050,8565	16,95576	
30	85081,11094,24051	1 61913,79833	1 90305,22350	9,92983,31520,4647	10,20928,38610	18: 0
	9,17250,62499	63,19112	53,76081	4,68233,6130	16,95279	
29	85071,93843,61552	1 61850,60721	1 90251,46269	9,92978,63286,8517	10,20911,43331	17:24
	9,17509,76894	63,15543	53,72466	4,68416,4088	16,94984	
28	85062,76333,84658	1 61787,45178	1 90197,73803	9,92973,94870,4429	10,20894,48347	16:48
	9,17768,88494	63,11978	53,68853	4,68599,2442	16,94687	
27	85053,58564,96164	1 61724,33200	1 90144,04950	9,92969,26271,1987	10,20877,53660	16:12
	9,18027,97297	63,08415	53,65244	4,68782,1189	16,94392	
26	85044,40536,98867	1 61661,24785	1 90090,39706	9,92964,57489,0798	10,20860,59268	15:36
	9,18287,03304	63,04857	53,61638	4,68965,0332	16,94098	
25	85035,22249,95563	1 61598,19928	1 90036,78068	9,92959,88524,0466	10,20843,65170	15: 0
	9,18546,06514	63,01301	53,58036	4,69147,9870	16,93802	
24	85026,03703,89049	1 61535,18627	1 89983,20032	9,92955,19376,0596	10,20826,71368	14:24
	9,18805,06927	62,97749	53,54437	4,69330,9802	16,93508	
23	85016,84898,82122	1 61472,20878	1 89929,65595	9,92950,50045,0794	10,20809,77860	13:48
	9,19064,04539	62,94200	53,50842	4,69514,0131	16,93213	
22	85007,65834,77583	1 61409,26678	1 89876,14753	9,92945,80531,0663	10,20792,84647	13:12
	9,19322,99353	62,90655	53,47249	4,69697,0855	16,92920	
21	84998,46511,78230	1 61346,36023	1 89822,67504	9,92941,10833,9808	10,20775,91727	12:36
	9,19581,91366	62,87113	53,43661	4,69880,1976	16,92626	
20	84989,26929,86864	1 61283,48910	1 89769,23843	9,92936,40953,7832	10,20758,99101	12: 0
	9,19840,80578	62,83575	53,40075	4,70063,3492	16,92333	
19	84980,07089,06286	1 61220,65335	1 89715,83768	9,92931,70890,4340	10,20742,06768	11:24
	9,20099,66988	62,80039	53,36493	4,70246,5405	16,92040	
18	84970,86989,39298	1 61157,85296	1 89662,47275	9,92927,00643,8935	10,20725,14728	10:48
	9,20358,50594	62,76507	53,32914	4,70429,7716	16,91747	
17	84961,66630,88704	1 61095,08789	1 89609,14361	9,92922,30214,1219	10,20708,22981	10:12
	9,20617,31399	62,72979	53,29339	4,70613,0422	16,91455	
16	84952,46013,57305	1 61032,35810	1 89555,85022	9,92917,59601,0797	10,20691,31526	9:36
	9,20876,09397	62,69454	53,25766	4,70796,3526	16,91163	
15	84943,25137,47908	1 60969,66356	1 89502,59256	9,92912,88804,7271	10,20674,40363	9: 0
	9,21134,84591	62,65932	53,22198	4,70979,7028	16,90871	
14	84934,04002,63317	1 60907,00424	1 89449,37058	9,92908,17825,0243	10,20657,49492	8:24
	9,21393,56980	62,62414	53,18633	4,71163,0927	16,90579	
13	84924,82609,06337	1 60844,38010	1 89396,18425	9,92903,46661,9316	10,20640,58913	7:48
	9,21652,26561	62,58899	53,15070	4,71346,5224	16,90289	
12	84915,60956,79776	1 60781,79111	1 89343,03355	9,92898,75315,4092	10,20623,68624	7:12
	9,21910,93334	62,55387	53,11512	4,71529,9920	16,89998	
11	84906,39045,86442	1 60719,23724	1 89289,91843	9,92894,03785,4172	10,20606,78626	6:36
	9,22169,57301	62,51878	53,07956	4,71713,5013	16,89707	
10	84897,16876,29141	1 60656,71846	1 89236,83887	9,92889,32071,9159	10,20589,88919	6: 0
	9,22428,18456	62,48374	53,04404	4,71897,0507	16,89417	
9	84887,94448,10685	1 60594,23472	1 89183,79483	9,92884,60174,8652	10,20572,99502	5:24
	9,22686,76803	62,44872	53,00855	4,72080,6398	16,89127	
8	84878,71761,33882	1 60531,78600	1 89130,78628	9,92879,88094,2254	10,20556,10375	4:48
	9,22945,32339	62,41373	52,97310	4,72264,2688	16,88838	
7	84869,48816,01543	1 60469,37227	1 89077,81318	9,92875,15829,9566	10,20539,21537	4:12
	9,23203,85064	62,37878	52,93768	4,72447,9379	16,88548	
6	84860,25612,16479	1 60406,99349	1 89024,87550	9,92870,43382,0187	10,20522,32989	3:36
	9,23462,34975	62,34387	52,90228	4,72631,6468	16,88259	
5	84851,02149,81504	1 60344,64962	1 88971,97322	9,92865,70750,3719	10,20505,44730	3: 0
	9,23720,82075	62,30898	52,86693	4,72815,3958	16,87971	
4	84841,78428,99429	1 60282,34064	1 88919,10629	9,92860,97934,9761	10,20488,56759	2:24
	9,23979,26360	62,27413	52,83161	4,72999,1848	16,87682	
3	84832,54449,73069	1 60220,06651	1 88866,27468	9,92856,24935,7913	10,20471,69077	1:48
	9,24237,67831	62,23931	52,79631	4,73183,0138	16,87394	
2	84823,30212,05238	1 60157,82720	1 88813,47837	9,92851,51752,7775	10,20454,81683	1:12
	9,24496,06487	62,20452	52,76106	4,73366,8829	16,87107	
1	84814,05715,98751	1 60095,62268	1 88760,71731	9,92846,78385,8946	10,20437,94576	0:36
	9,24754,42325	62,16978	52,72583	4,73550,7920	16,86819	
0	84804,80961,56426	1 60033,45290	1 88707,99148	9,92842,04835,1026	10,20421,07757	0: 0
	9,25012,75348	62,13505	52,69064	4,73734,7413	16,86531	

GRAD. 58.

32. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	52991,92642,33205 14,80042,43049	62486,93519 24,27078	1 17917,84034 12,86335	9,72420,97077,7269 12,12797,0401	9,79578,92243 16,86531	0: 0
1	53006,72684,76254 14,79880,96276	62511,20597 24,27608	1 17930,70369 12,86975	9,72433,09874,7670 12,12326,1961	9,79595,78774 16,86245	0:36
2	53021,52565,72530 14,79719,44996	62535,48205 24,28138	1 17943,57344 12,87615	9,72445,22200,9631 12,11855,6148	9,79612,65019 16,85959	1:12
3	53036,32285,17526 14,79557,89208	62559,76343 24,28668	1 17956,44959 12,88256	9,72457,34056,5779 12,11385,2961	9,79629,50978 16,85672	1:48
4	53051,11843,06734 14,79396,28913	62584,05011 24,29199	1 17969,33215 12,88897	9,72469,45441,8740 12,10915,2397	9,79646,36650 16,85386	2:24
5	53065,91239,35647 14,79234,64113	62608,34210 24,29730	1 17982,22112 12,89538	9,72481,56357,1137 12,10445,4453	9,79663,22036 16,85101	3: 0
6	53080,70473,99760 14,79072,94805	62632,63940 24,30261	1 17995,11650 12,90179	9,72493,66802,5590 12,09975,9128	9,79680,07137 16,84815	3:36
7	53095,49546,94565 14,78911,20992	62656,94201 24,30792	1 18008,01829 12,90822	9,72505,76778,4718 12,09506,6418	9,79696,91952 16,84530	4:12
8	53110,28458,15557 14,78749,42674	62681,24993 24,31325	1 18020,92651 12,91463	9,72517,86285,1136 12,09037,6322	9,79713,76482 16,84245	4:48
9	53125,07207,58231 14,78587,59852	62705,56318 24,31856	1 18033,84114 12,92105	9,72529,95322,7458 12,08568,8834	9,79730,60727 16,83961	5:24
10	53139,85795,18083 14,78425,72525	62729,88174 24,32390	1 18046,76219 12,92748	9,72542,03891,6292 12,08100,3957	9,79747,44688 16,83677	6: 0
11	53154,64220,90608 14,78263,80696	62754,20564 24,32922	1 18059,68967 12,93391	9,72554,11992,0249 12,07632,1685	9,79764,28365 16,83393	6:36
12	53169,42484,71304 14,78101,84363	62778,53486 24,33455	1 18072,62358 12,94034	9,72566,19624,1934 12,07164,2016	9,79781,11758 16,83110	7:12
13	53184,20586,55667 14,77939,83527	62802,86941 24,33989	1 18085,56392 12,94678	9,72578,26788,3950 12,06696,4947	9,79797,94868 16,82826	7:48
14	53198,98526,39194 14,77777,78190	62827,20930 24,34523	1 18098,51070 12,95321	9,72590,33484,8897 12,06229,0477	9,79814,77694 16,82543	8:24
15	53213,76304,17384 14,77615,68350	62851,55453 24,35057	1 18111,46391 12,95965	9,72602,39713,9374 12,05761,8604	9,79831,60237 16,82261	9: 0
16	53228,53919,85734 14,77453,54010	62875,90510 24,35591	1 18124,42356 12,96610	9,72614,45475,7978 12,05294,9323	9,79848,42498 16,81978	9:36
17	53243,31373,39744 14,77291,35170	62900,26101 24,36127	1 18137,38966 12,97254	9,72626,50770,7301 12,04828,2633	9,79865,24476 16,81696	10:12
18	53258,08664,74914 14,77129,11828	62924,62228 24,36661	1 18150,36220 12,97899	9,72638,55598,9934 12,04361,8532	9,79882,06172 16,81415	10:48
19	53272,85793,86742 14,76966,83988	62948,98889 24,37197	1 18163,34119 12,98545	9,72650,59960,8466 12,03895,7018	9,79898,87587 16,81133	11:24
20	53287,62760,70730 14,76804,51648	62973,36086 24,37733	1 18176,32664 12,99190	9,72662,63856,5484 12,03429,8086	9,79915,68720 16,80852	12: 0
21	53302,39565,22378 14,76642,14811	62997,73819 24,38268	1 18189,31854 12,99836	9,72674,67286,3570 12,02964,1736	9,79932,49572 16,80571	12:36
22	53317,16207,37189 14,76479,73474	63022,12087 24,38806	1 18202,31690 13,00481	9,72686,70250,5306 12,02498,7966	9,79949,30143 16,80291	13:12
23	53331,92687,10663 14,76317,27640	63046,50893 24,39342	1 18215,32171 13,01129	9,72698,72749,3272 12,02033,6770	9,79966,10434 16,80010	13:48
24	53346,69004,38303 14,76154,77309	63070,90235 24,39879	1 18228,33300 13,01774	9,72710,74783,0042 12,01568,8150	9,79982,90444 16,79731	14:24
25	53361,45159,15612 14,75992,22481	63095,30114 24,40416	1 18241,35074 13,02422	9,72722,76351,8192 12,01104,2101	9,79999,70175 16,79451	15: 0
26	53376,21151,38093 14,75829,63157	63119,70530 24,40955	1 18254,37496 13,03069	9,72734,77456,0293 12,00639,8621	9,80016,49626 16,79171	15:36
27	53390,96981,01250 14,75666,99338	63144,11485 24,41492	1 18267,40565 13,03717	9,72746,78095,8914 12,00175,7708	9,80033,28797 16,78892	16:12
28	53405,72648,00588 14,75504,31024	63168,52977 24,42031	1 18280,44282 13,04364	9,72758,78271,6622 11,99711,9359	9,80050,07689 16,78614	16:48
29	53420,48152,31612 14,75341,58214	63192,95008 24,42569	1 18293,48646 13,05013	9,72770,77983,5981 11,99248,3572	9,80066,86303 16,78335	17:24
30	53435,23493,89826 14,75178,80911	63217,37577 24,43109	1 18306,53659 13,05661	9,72782,77231,9553 11,98785,0344	9,80083,64638 16,78057	18: 0
31	53449,98672,70737 14,75015,99114	63241,80686 24,43648	1 18319,59320 13,06310	9,72794,76016,9897 11,98321,9674	9,80100,42695 16,77779	18:36
32	53464,73688,69851 14,74853,12824	63266,24334 24,44188	1 18332,65630 13,06959	9,72806,74338,9571 11,97859,1559	9,80117,20474 16,77502	19:12
33	53479,48541,82675 14,74690,22041	63290,68522 24,44728	1 18345,72589 13,07608	9,72818,72198,1130 11,97396,5995	9,80133,97976 16,77224	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	84804,80961,56426 9,25012,75348	1 60033,45290 62,13505	1 88707,99148 52,69064	9,92842,04835,1026 4,73734,7413	10,20421,07757 16,86531	60: 0
99	84795,55948,81078 9,25271,05552	1 59971,31785 62,10036	1 88655,30084 52,65548	9,92837,31100,3613 4,73918,7307	10,20404,21226 16,86245	59:24
98	84786,30677,75526 9,25529,32938	1 59909,21749 62,06572	1 88602,64536 52,62035	9,92832,57181,6306 4,74102,7603	10,20387,34981 16,85959	58:48
97	84777,05148,42588 9,25787,57505	1 59847,15177 62,03109	1 88550,02501 52,58526	9,92827,83078,8703 4,74286,8301	10,20370,49022 16,85672	58:12
96	84767,79360,85083 9,26045,79251	1 59785,12068 61,99650	1 88497,43975 52,55020	9,92823,08792,0402 4,74470,9400	10,20353,63350 16,85386	57:36
95	84758,53315,05832 9,26303,98177	1 59723,12418 61,96194	1 88444,88955 52,51516	9,92818,34321,1002 4,74655,0902	10,20336,77964 16,85101	57: 0
94	84749,27011,07655 9,26562,14281	1 59661,16224 61,92743	1 88392,37439 52,48018	9,92813,59666,0100 4,74839,2807	10,20319,92863 16,84815	56:24
93	84740,00448,93374 9,26820,27562	1 59599,23481 61,89293	1 88339,89421 52,44520	9,92808,84826,7293 4,75023,5114	10,20303,08048 16,84530	55:48
92	84730,73628,65812 9,27078,38020	1 59537,34188 61,85847	1 88287,44901 52,41027	9,92804,09803,2179 4,75207,7825	10,20286,23518 16,84245	55:12
91	84721,46550,27792 9,27336,45655	1 59475,48341 61,82405	1 88235,03874 52,37538	9,92799,34595,4354 4,75392,0938	10,20269,39273 16,83961	54:36
90	84712,19213,82137 9,27594,50464	1 59413,65936 61,78966	1 88182,66336 52,34051	9,92794,59203,3416 4,75576,4455	10,20252,55312 16,83677	54: 0
89	84702,91619,31673 9,27852,52447	1 59351,86970 61,75529	1 88130,32285 52,30567	9,92789,83626,8961 4,75760,8377	10,20235,71635 16,83393	53:24
88	84693,63766,79226 9,28110,51605	1 59290,11441 61,72097	1 88078,01718 52,27087	9,92785,07866,0584 4,75945,2701	10,20218,88242 16,83110	52:48
87	84684,35656,27621 9,28368,47935	1 59228,39344 61,68667	1 88025,74631 52,23609	9,92780,31920,7883 4,76129,7431	10,20202,05132 16,82826	52:12
86	84675,07287,79686 9,28626,41438	1 59166,70677 61,65241	1 87973,51022 52,20136	9,92775,55791,0452 4,76314,2565	10,20185,22306 16,82543	51:36
85	84665,78661,38248 9,28884,32110	1 59105,05436 61,61818	1 87921,30886 52,16666	9,92770,79476,7887 4,76498,8104	10,20168,39763 16,82261	51: 0
84	84656,49777,06138 9,29142,19955	1 59043,43618 61,58398	1 87869,14220 52,13197	9,92766,02977,9783 4,76683,4047	10,20151,57502 16,81978	50:24
83	84647,20634,86183 9,29400,04968	1 58981,85220 61,54981	1 87817,01023 52,09734	9,92761,26294,5736 4,76868,0397	10,20134,75524 16,81696	49:48
82	84637,91234,81215 9,29657,87150	1 58920,30239 61,51568	1 87764,91289 52,06273	9,92756,49426,5339 4,77052,7151	10,20117,93828 16,81415	49:12
81	84628,61576,94065 9,29915,66501	1 58858,78671 61,48157	1 87712,85016 52,02814	9,92751,72373,8188 4,77237,4311	10,20101,12413 16,81133	48:36
80	84619,31661,27564 9,30173,43019	1 58797,30514 61,44751	1 87660,82202 51,99361	9,92746,95136,3877 4,77422,1877	10,20084,31280 16,80852	48: 0
79	84610,01487,84545 9,30431,16703	1 58735,85763 61,41346	1 87608,82841 51,95908	9,92742,17714,2000 4,77606,9850	10,20067,50428 16,80571	47:24
78	84600,71056,67842 9,30688,87553	1 58674,44417 61,37946	1 87556,86933 51,92461	9,92737,40107,2150 4,77791,8229	10,20050,69857 16,80291	46:48
77	84591,40367,80289 9,30946,55568	1 58613,06471 61,34549	1 87504,94472 51,89015	9,92732,62315,3921 4,77976,7015	10,20033,89566 16,80010	46:12
76	84582,09421,24721 9,31204,20748	1 58551,71922 61,31154	1 87453,05457 51,85573	9,92727,84338,6906 4,78161,6207	10,20017,09556 16,79731	45:36
75	84572,78217,03973 9,31461,83090	1 58490,40768 61,27764	1 87401,19884 51,82135	9,92723,06177,0699 4,78346,5808	10,20000,29825 16,79451	45: 0
74	84563,46755,20883 9,31719,42595	1 58429,13004 61,24375	1 87349,37749 51,78699	9,92718,27830,4891 4,78531,5814	10,19983,50374 16,79171	44:24
73	84554,15035,78288 9,31976,99263	1 58367,88629 61,20991	1 87297,59050 51,75266	9,92713,49298,9077 4,78716,6231	10,19966,71203 16,78892	43:48
72	84544,83058,79025 9,32234,53090	1 58306,67638 61,17609	1 87245,83784 51,71838	9,92708,70582,2846 4,78901,7053	10,19949,92311 16,78614	43:12
71	84535,50824,25935 9,32492,04079	1 58245,50029 61,14231	1 87194,11946 51,68411	9,92703,91680,5793 4,79086,8285	10,19933,13697 16,78335	42:36
70	84526,18332,21856 9,32749,52226	1 58184,35798 61,10856	1 87142,43535 51,64988	9,92699,12593,7508 4,79271,9924	10,19916,35362 16,78057	42: 0
69	84516,85582,69630 9,33006,97534	1 58123,24942 61,07484	1 87090,78547 51,61569	9,92694,33321,7584 4,79457,1974	10,19899,57305 16,77779	41:24
68	84507,52575,72096 9,33264,39997	1 58062,17458 61,04115	1 87039,16978 51,58152	9,92689,53864,5610 4,79642,4431	10,19882,79526 16,77502	40:48
67	84498,19311,32099 9,33521,79619	1 58001,13343 61,00749	1 86987,58826 51,54738	9,92684,74222,1179 4,79827,7297	10,19866,02024 16,77224	40:12

GRAD. 57.

32. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	53479,48541,82675	63290,68522	1 18345,72589	9,72818,72198,1130	9,80133,97976	19:48
	14,74690,22041	24,44728	13,07608	11,97396,5995	16,77224	
34	53494,23232,04716	63315,13250	1 18358,80197	9,72830,69594,7125	9,80150,75200	20:24
	14,74527,26766	24,45268	13,08257	11,96934,2982	16,76948	
35	53508,97759,31482	63339,58518	1 18371,88454	9,72842,66529,0107	9,80167,52148	21: 0
	14,74364,27000	24,45809	13,08908	11,96472,2516	16,76670	
36	53523,72123,58482	63364,04327	1 18384,97362	9,72854,63001,2623	9,80184,28818	21:36
	14,74201,22741	24,46349	13,09558	11,96010,4596	16,76395	
37	53538,46324,81223	63388,50676	1 18398,06920	9,72866,59011,7219	9,80201,05213	22:12
	14,74038,13993	24,46892	13,10208	11,95548,9218	16,76118	
38	53553,20362,95216	63412,97568	1 18411,17128	9,72878,54560,6437	9,80217,81331	22:48
	14,73875,00755	24,47433	13,10859	11,95087,6380	16,75842	
39	53567,94237,95971	63437,45001	1 18424,27987	9,72890,49648,2817	9,80234,57173	23:24
	14,73711,83026	24,47974	13,11510	11,94626,6081	16,75567	
40	53582,67949,78997	63461,92975	1 18437,39497	9,72902,44274,8898	9,80251,32740	24: 0
	14,73548,60808	24,48518	13,12162	11,94165,8317	16,75292	
41	53597,41498,39805	63486,41493	1 18450,51659	9,72914,38440,7215	9,80268,08032	24:36
	14,73385,34102	24,49060	13,12813	11,93705,3086	16,75017	
42	53612,14883,73907	63510,90553	1 18463,64472	9,72926,32146,0301	9,80284,83049	25:12
	14,73222,02908	24,49603	13,13465	11,93245,0387	16,74742	
43	53626,88105,76815	63535,40156	1 18476,77937	9,72938,25391,0688	9,80301,57791	25:48
	14,73058,67226	24,50146	13,14118	11,92785,0215	16,74468	
44	53641,61164,44041	63559,90302	1 18489,92055	9,72950,18176,0903	9,80318,32259	26:24
	14,72895,27057	24,50690	13,14770	11,92325,2571	16,74194	
45	53656,34059,71098	63584,40992	1 18503,06825	9,72962,10501,3474	9,80335,06453	27: 0
	14,72731,82400	24,51234	13,15423	11,91865,7449	16,73920	
46	53671,06791,53498	63608,92226	1 18516,22248	9,72974,02367,0923	9,80351,80373	27:36
	14,72568,33258	24,51778	13,16076	11,91406,4850	16,73646	
47	53685,79359,86756	63633,44004	1 18529,38324	9,72985,93773,5773	9,80368,54019	28:12
	14,72404,79631	24,52323	13,16730	11,90947,4770	16,73374	
48	53700,51764,66387	63657,96327	1 18542,55054	9,72997,84721,0543	9,80385,27393	28:48
	14,72241,21517	24,52868	13,17383	11,90488,7205	16,73101	
49	53715,24005,87904	63682,49195	1 18555,72437	9,73009,75209,7748	9,80402,00494	29:24
	14,72077,58920	24,53413	13,18037	11,90030,2156	16,72828	
50	53729,96083,46824	63707,02608	1 18568,90474	9,73021,65239,9904	9,80418,73322	30: 0
	14,71913,91837	24,53959	13,18692	11,89571,9619	16,72556	
51	53744,67997,38661	63731,56567	1 18582,09166	9,73033,54811,9523	9,80435,45878	30:36
	14,71750,20272	24,54505	13,19347	11,89113,9590	16,72283	
52	53759,39747,58933	63756,11072	1 18595,28513	9,73045,43925,9113	9,80452,18161	31:12
	14,71586,44223	24,55051	13,20001	11,88656,2071	16,72013	
53	53774,11334,03156	63780,66123	1 18608,48514	9,73057,32582,1184	9,80468,90174	31:48
	14,71422,63692	24,55598	13,20656	11,88198,7055	16,71740	
54	53788,82756,66848	63805,21721	1 18621,69170	9,73069,20780,8239	9,80485,61914	32:24
	14,71258,78677	24,56145	13,21313	11,87741,4543	16,71470	
55	53803,54015,45525	63829,77866	1 18634,90483	9,73081,08522,2782	9,80502,33384	33: 0
	14,71094,89182	24,56692	13,21968	11,87284,4531	16,71199	
56	53818,25110,34707	63854,34558	1 18648,12451	9,73092,95806,7313	9,80519,04583	33:36
	14,70930,95205	24,57239	13,22624	11,86827,7016	16,70928	
57	53832,96041,29912	63878,91797	1 18661,35075	9,73104,82634,4329	9,80535,75511	34:12
	14,70766,96748	24,57788	13,23281	11,86371,1998	16,70659	
58	53847,66808,26660	63903,49585	1 18674,58356	9,73116,69005,6327	9,80552,46170	34:48
	14,70602,93810	24,58336	13,23937	11,85914,9473	16,70388	
59	53862,37411,20470	63928,07921	1 18687,82293	9,73128,54920,5800	9,80569,16558	35:24
	14,70438,86393	24,58885	13,24594	11,85458,9439	16,70118	
60	53877,07850,06863	63952,66806	1 18701,06887	9,73140,40379,5239	9,80585,86676	36: 0
	14,70274,74496	24,59433	13,25252	11,85003,1893	16,69850	
61	53891,78124,81359	63977,26239	1 18714,32139	9,73152,25382,7132	9,80602,56526	36:36
	14,70110,58121	24,59983	13,25910	11,84547,6835	16,69580	
62	53906,48235,39480	64001,86222	1 18727,58049	9,73164,09930,3967	9,80619,26106	37:12
	14,69946,37267	24,60533	13,26567	11,84092,4260	16,69311	
63	53921,18181,76747	64026,46755	1 18740,84616	9,73175,94022,8227	9,80635,95417	37:48
	14,69782,11936	24,61083	13,27226	11,83637,4167	16,69043	
64	53935,87963,88683	64051,07838	1 18754,11842	9,73187,77660,2394	9,80652,64460	38:24
	14,69617,82128	24,61632	13,27884	11,83182,6554	16,68775	
65	53950,57581,70811	64075,69470	1 18767,39726	9,73199,60842,8948	9,80669,33235	39: 0
	14,69453,47842	24,62184	13,28543	11,82728,1418	16,68507	
66	53965,27035,18653	64100,31654	1 18780,68269	9,73211,43571,0366	9,80686,01742	39:36
	14,69289,09082	24,62735	13,29202	11,82273,8757	16,68239	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	84498,19311,32099 9,33521,79619	1 58001,13343 61,00749	1 86987,58826 51,54738	9,92684,74222,1179 4,79827,7297	10,19866,02024 16,77224	40:12
66	84488,85789,52480 9,33779,16397	1 57940,12594 60,97387	1 86936,04088 51,51328	9,92679,94394,3882 4,80013,0574	10,19849,24800 16,76948	39:36
65	84479,52010,36083 9,34036,50330	1 57879,15207 60,94028	1 86884,52760 51,47920	9,92675,14381,3308 4,80198,4261	10,19832,47852 16,76670	39: 0
64	84470,17973,85753 9,34293,81418	1 57818,21179 60,90671	1 86833,04840 51,44517	9,92670,34182,9047 4,80383,8356	10,19815,71182 16,76395	38:24
63	84460,83680,04335 9,34551,09661	1 57757,30508 60,87318	1 86781,60323 51,41115	9,92665,53799,0691 4,80569,2862	10,19798,94787 16,76118	37:48
62	84451,49128,94674 9,34808,35055	1 57696,43190 60,83969	1 86730,19208 51,37718	9,92660,73229,7829 4,80754,7779	10,19782,18669 16,75842	37:12
61	84442,14320,59619 9,35065,57604	1 57635,59221 60,80621	1 86678,81490 51,34323	9,92655,92475,0050 4,80940,3106	10,19765,42827 16,75567	36:36
60	84432,79255,02015 9,35322,77303	1 57574,78600 60,77278	1 86627,47167 51,30931	9,92651,11534,6944 4,81125,8845	10,19748,67260 16,75292	36: 0
59	84423,43932,24712 9,35579,94153	1 57514,01322 60,73938	1 86576,16236 51,27543	9,92646,30408,8099 4,81311,4994	10,19731,91968 16,75017	35:24
58	84414,08352,30559 9,35837,08153	1 57453,27384 60,70599	1 86524,88693 51,24157	9,92641,49097,3105 4,81497,1555	10,19715,16951 16,74742	34:48
57	84404,72515,22406 9,36094,19303	1 57392,56785 60,67266	1 86473,64536 51,20775	9,92636,67600,1550 4,81682,8528	10,19698,42209 16,74468	34:12
56	84395,36421,03103 9,36351,27601	1 57331,89519 60,63934	1 86422,43761 51,17396	9,92631,85917,3022 4,81868,5913	10,19681,67741 16,74194	33:36
55	84386,00069,75502 9,36608,33046	1 57271,25585 60,60607	1 86371,26365 51,14019	9,92627,04048,7109 4,82054,3710	10,19664,93547 16,73920	33: 0
54	84376,63461,42456 9,36865,35639	1 57210,64978 60,57281	1 86320,12346 51,10647	9,92622,21994,3399 4,82240,1919	10,19648,19627 16,73646	32:24
53	84367,26596,06817 9,37122,35378	1 57150,07697 60,53960	1 86269,01699 51,07276	9,92617,39754,1480 4,82426,0541	10,19631,45981 16,73374	31:48
52	84357,89473,71439 9,37379,32262	1 57089,53737 60,50641	1 86217,94423 51,03910	9,92612,57328,0939 4,82611,9577	10,19614,72607 16,73101	31:12
51	84348,52094,39177 9,37636,26291	1 57029,03096 60,47325	1 86166,90513 51,00546	9,92607,74716,1362 4,82797,9024	10,19597,99506 16,72828	30:36
50	84339,14458,12886 9,37893,17464	1 56968,55771 60,44012	1 86115,89967 50,97185	9,92602,91918,2338 4,82983,8887	10,19581,26678 16,72556	30: 0
49	84329,76564,95422 9,38150,05779	1 56908,11759 60,40704	1 86064,92782 50,93828	9,92598,08934,3451 4,83169,9161	10,19564,54122 16,72283	29:24
48	84320,38414,89643 9,38406,91237	1 56847,71055 60,37396	1 86013,98954 50,90472	9,92593,25764,4290 4,83355,9852	10,19547,81839 16,72013	28:48
47	84311,00007,98406 9,38663,73836	1 56787,33659 60,34094	1 85963,08482 50,87122	9,92588,42408,4438 4,83542,0955	10,19531,09826 16,71740	28:12
46	84301,61344,24570 9,38920,53576	1 56726,99565 60,30793	1 85912,21360 50,83773	9,92583,58866,3483 4,83728,2473	10,19514,38086 16,71470	27:36
45	84292,22423,70994 9,39177,30455	1 56666,68772 60,27496	1 85861,37587 50,80427	9,92578,75138,1010 4,83914,4406	10,19497,66616 16,71199	27: 0
44	84282,83246,40539 9,39434,04475	1 56606,41276 60,24202	1 85810,57160 50,77085	9,92573,91223,6604 4,84100,6754	10,19480,95417 16,70928	26:24
43	84273,43812,36064 9,39690,75632	1 56546,17074 60,20911	1 85759,80075 50,73746	9,92569,07122,9850 4,84286,9517	10,19464,24489 16,70659	25:48
42	84264,04121,60432 9,39947,43926	1 56485,96163 60,17623	1 85709,06329 50,70409	9,92564,22836,0333 4,84473,2696	10,19447,53830 16,70388	25:12
41	84254,64174,16506 9,40204,09358	1 56425,78540 60,14338	1 85658,35920 50,67077	9,92559,38362,7637 4,84659,6290	10,19430,83442 16,70118	24:36
40	84245,23970,07148 9,40460,71926	1 56365,64202 60,11056	1 85607,68843 50,63746	9,92554,53703,1347 4,84846,0300	10,19414,13324 16,69850	24: 0
39	84235,83509,35222 9,40717,31628	1 56305,53146 60,07777	1 85557,05097 50,60419	9,92549,68857,1047 4,85032,4727	10,19397,43474 16,69580	23:24
38	84226,42792,03594 9,40973,88466	1 56245,45369 60,04502	1 85506,44678 50,57095	9,92544,83824,6320 4,85218,9570	10,19380,73894 16,69311	22:48
37	84217,01818,15128 9,41230,42436	1 56185,40867 60,01229	1 85455,87583 50,53773	9,92539,98605,6750 4,85405,4829	10,19364,04583 16,69043	22:12
36	84207,60587,72692 9,41486,93539	1 56125,39638 59,97959	1 85405,33810 50,50456	9,92535,13200,1921 4,85592,0507	10,19347,35540 16,68775	21:36
35	84198,19100,79153 9,41743,41776	1 56065,41679 59,94693	1 85354,83354 50,47140	9,92530,27608,1414 4,85778,6600	10,19330,66765 16,68507	21: 0
34	84188,77357,37377 9,41999,87142	1 56005,46986 59,91429	1 85304,36214 50,43829	9,92525,41829,4814 4,85965,3113	10,19313,98258 16,68239	20:24

GRAD. 57.

32. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	53979,96324,27735	64124,94389	1 18793,97471	9,73223,25844,9123	9,80702,69981	40:12
	14,69124,65844	24,63285	13,29862	11,81819,8568	16,67972	
68	53994,65448,93579	64149,57674	1 18807,27333	9,73235,07664,7691	9,80719,37953	40:48
	14,68960,18131	24,63838	13,30522	11,81366,0849	16,67704	
69	54009,34409,11710	64174,21512	1 18820,57855	9,73246,89030,8540	9,80736,05657	41:24
	14,68795,65945	24,64389	13,31181	11,80912,5599	16,67439	
70	54024,03204,77655	64198,85901	1 18833,89036	9,73258,69943,4139	9,80752,73096	42: 0
	14,68631,09284	24,64942	13,31842	11,80459,2815	16,67171	
71	54038,71835,86939	64223,50843	1 18847,20878	9,73270,50402,6954	9,80769,40267	42:36
	14,68466,48148	24,65494	13,32503	11,80006,2494	16,66906	
72	54053,40302,35087	64248,16337	1 18860,53381	9,73282,30408,9448	9,80786,07173	43:12
	14,68301,82541	24,66048	13,33163	11,79553,4634	16,66639	
73	54068,08604,17628	64272,82385	1 18873,86544	9,73294,09962,4082	9,80802,73812	43:48
	14,68137,12459	24,66601	13,33825	11,79100,9232	16,66374	
74	54082,76741,30087	64297,48986	1 18887,20369	9,73305,89063,3314	9,80819,40186	44:24
	14,67972,37907	24,67154	13,34487	11,78648,6289	16,66109	
75	54097,44713,67994	64322,16140	1 18900,54856	9,73317,67711,9603	9,80836,06295	45: 0
	14,67807,58882	24,67709	13,35148	11,78196,5798	16,65843	
76	54112,12521,26876	64346,83849	1 18913,90004	9,73329,45908,5401	9,80852,72138	45:36
	14,67642,75386	24,68262	13,35811	11,77744,7760	16,65579	
77	54126,80164,02262	64371,52111	1 18927,25815	9,73341,23653,3161	9,80869,37717	46:12
	14,67477,87419	24,68818	13,36473	11,77293,2172	16,65315	
78	54141,47641,89681	64396,20929	1 18940,62288	9,73353,00946,5333	9,80886,03032	46:48
	14,67312,94983	24,69372	13,37136	11,76841,9031	16,65050	
79	54156,14954,84664	64420,90301	1 18953,99424	9,73364,77788,4364	9,80902,68082	47:24
	14,67147,98076	24,69928	13,37799	11,76390,8336	16,64786	
80	54170,82102,82740	64445,60229	1 18967,37223	9,73376,54179,2700	9,80919,32868	48: 0
	14,66982,96700	24,70484	13,38462	11,75940,0083	16,64523	
81	54185,49085,79440	64470,30713	1 18980,75685	9,73388,30119,2783	9,80935,97391	48:36
	14,66817,90856	24,71039	13,39126	11,75489,4272	16,64260	
82	54200,15903,70296	64495,01752	1 18994,14811	9,73400,05608,7055	9,80952,61651	49:12
	14,66652,80544	24,71596	13,39790	11,75039,0898	16,63996	
83	54214,82556,50840	64519,73348	1 19007,54601	9,73411,80647,7953	9,80969,25647	49:48
	14,66487,65763	24,72153	13,40455	11,74588,9961	16,63734	
84	54229,49044,16603	64544,45501	1 19020,95056	9,73423,55236,7914	9,80985,89381	50:24
	14,66322,46516	24,72709	13,41119	11,74139,1458	16,63471	
85	54244,15366,63119	64569,18210	1 19034,36175	9,73435,29375,9372	9,81002,52852	51: 0
	14,66157,22801	24,73267	13,41784	11,73689,5387	16,63210	
86	54258,81523,85920	64593,91477	1 19047,77959	9,73447,03065,4759	9,81019,16062	51:36
	14,65991,94622	24,73825	13,42450	11,73240,1746	16,62947	
87	54273,47515,80542	64618,65302	1 19061,20409	9,73458,76305,6505	9,81035,79009	52:12
	14,65826,61975	24,74383	13,43115	11,72791,0530	16,62686	
88	54288,13342,42517	64643,39685	1 19074,63524	9,73470,49096,7035	9,81052,41695	52:48
	14,65661,24865	24,74941	13,43780	11,72342,1741	16,62424	
89	54302,79003,67382	64668,14626	1 19088,07304	9,73482,21438,8776	9,81069,04119	53:24
	14,65495,83289	24,75500	13,44447	11,71893,5375	16,62164	
90	54317,44499,50671	64692,90126	1 19101,51751	9,73493,93332,4151	9,81085,66283	54: 0
	14,65330,37248	24,76059	13,45114	11,71445,1428	16,61902	
91	54332,09829,87919	64717,66185	1 19114,96865	9,73505,64777,5579	9,81102,28185	54:36
	14,65164,86746	24,76619	13,45780	11,70996,9900	16,61642	
92	54346,74994,74665	64742,42804	1 19128,42645	9,73517,35774,5479	9,81118,89827	55:12
	14,64999,31778	24,77178	13,46447	11,70549,0788	16,61382	
93	54361,39994,06443	64767,19982	1 19141,89092	9,73529,06323,6267	9,81135,51209	55:48
	14,64833,72349	24,77739	13,47115	11,70101,4090	16,61123	
94	54376,04827,78792	64791,97721	1 19155,36207	9,73540,76425,0357	9,81152,12332	56:24
	14,64668,08458	24,78298	13,47783	11,69653,9804	16,60862	
95	54390,69495,87250	64816,76019	1 19168,83990	9,73552,46079,0161	9,81168,73194	57: 0
	14,64502,40105	24,78860	13,48450	11,69206,7926	16,60604	
96	54405,33998,27355	64841,54879	1 19182,32440	9,73564,15285,8087	9,81185,33798	57:36
	14,64336,67290	24,79421	13,49119	11,68759,8457	16,60344	
97	54419,98334,94645	64866,34300	1 19195,81559	9,73575,84045,6544	9,81201,94142	58:12
	14,64170,90016	24,79982	13,49787	11,68313,1393	16,60085	
98	54434,62505,84661	64891,14282	1 19209,31346	9,73587,52358,7937	9,81218,54227	58:48
	14,64005,08280	24,80544	13,50457	11,67866,6730	16,59827	
99	54449,26510,92941	64915,94826	1 19222,81803	9,73599,20225,4667	9,81235,14054	59:24
	14,63839,22086	24,81106	13,51125	11,67420,4468	16,59569	
100	54463,90350,15027	64940,75932	1 19236,32928	9,73610,87645,9135	9,81251,73623	60: 0
	14,63673,31432	24,81669	13,51796	11,66974,4606	16,59311	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	84179,35357,50235 9,42256,29639	1 55945,55557 59,88169	1 85253,92385 50,40519	9,92520,55864,1701 4,86152,0041	10,19297,30019 16,67972	19:48
32	84169,93101,20596 9,42512,69267	1 55885,67388 59,84911	1 85203,51866 50,37214	9,92515,69712,1660 4,86338,7389	10,19280,62047 16,67704	19:12
31	84160,50588,51329 9,42769,06023	1 55825,82477 59,81656	1 85153,14652 50,33910	9,92510,83373,4271 4,86525,5154	10,19263,94343 16,67439	18:36
30	84151,07819,45306 9,43025,39907	1 55766,00821 59,78405	1 85102,80742 50,30611	9,92505,96847,9117 4,86712,3339	10,19247,26904 16,67171	18: 0
29	84141,64794,05399 9,43281,70919	1 55706,22416 59,75157	1 85052,50131 50,27313	9,92501,10135,5778 4,86899,1941	10,19230,59733 16,66906	17:24
28	84132,21512,34480 9,43537,99057	1 55646,47259 59,71911	1 85002,22818 50,24019	9,92496,23236,3837 4,87086,0964	10,19213,92827 16,66639	16:48
27	84122,77974,35423 9,43794,24320	1 55586,75348 59,68668	1 84951,98799 50,20729	9,92491,36150,2873 4,87273,0404	10,19197,26188 16,66374	16:12
26	84113,34180,11103 9,44050,46711	1 55527,06680 59,65429	1 84901,78070 50,17440	9,92486,48877,2469 4,87460,0266	10,19180,59814 16,66109	15:36
25	84103,90129,64392 9,44306,66223	1 55467,41251 59,62193	1 84851,60630 50,14155	9,92481,61417,2203 4,87647,0546	10,19163,93705 16,65843	15: 0
24	84094,45822,98169 9,44562,82860	1 55407,79058 59,58959	1 84801,46475 50,10873	9,92476,73770,1657 4,87834,1247	10,19147,27862 16,65579	14:24
23	84085,01260,15309 9,44818,96620	1 55348,20099 59,55729	1 84751,35602 50,07594	9,92471,85936,0410 4,88021,2367	10,19130,62283 16,65315	13:48
22	84075,56441,18689 9,45075,07501	1 55288,64370 59,52501	1 84701,28008 50,04318	9,92466,97914,8043 4,88208,3909	10,19113,96968 16,65050	13:12
21	84066,11366,11188 9,45331,15504	1 55229,11869 59,49277	1 84651,23690 50,01044	9,92462,09706,4134 4,88395,5872	10,19097,31918 16,64786	12:36
20	84056,66034,95684 9,45587,20626	1 55169,62592 59,46055	1 84601,22646 49,97775	9,92457,21310,8262 4,88582,8255	10,19080,67132 16,64523	12: 0
19	84047,20447,75058 9,45843,22870	1 55110,16537 59,42836	1 84551,24871 49,94507	9,92452,32728,0007 4,88770,1060	10,19064,02609 16,64260	11:24
18	84037,74604,52188 9,46099,22230	1 55050,73701 59,39621	1 84501,30364 49,91242	9,92447,43957,8947 4,88957,4286	10,19047,38349 16,63996	10:48
17	84028,28505,29958 9,46355,18710	1 54991,34080 59,36409	1 84451,39122 49,87982	9,92442,55000,4661 4,89144,7934	10,19030,74353 16,63734	10:12
16	84018,82150,11248 9,46611,12306	1 54931,97671 59,33199	1 84401,51140 49,84723	9,92437,65855,6727 4,89332,2005	10,19014,10619 16,63471	9:36
15	84009,35538,98942 9,46867,03019	1 54872,64472 59,29992	1 84351,66417 49,81467	9,92432,76523,4722 4,89519,6497	10,18997,47148 16,63210	9: 0
14	83999,88671,95923 9,47122,90848	1 54813,34480 59,26789	1 84301,84950 49,78215	9,92427,87003,8225 4,89707,1413	10,18980,83938 16,62947	8:24
13	83990,41549,05075 9,47378,75792	1 54754,07691 59,23587	1 84252,06735 49,74966	9,92422,97296,6812 4,89894,6750	10,18964,20991 16,62686	7:48
12	83980,94170,29283 9,47634,57849	1 54694,84104 59,20390	1 84202,31769 49,71718	9,92418,07402,0062 4,90082,2513	10,18947,58305 16,62424	7:12
11	83971,46535,71434 9,47890,37021	1 54635,63714 59,17195	1 84152,60051 49,68475	9,92413,17319,7549 4,90269,8696	10,18930,95881 16,62164	6:36
10	83961,98645,34413 9,48146,13304	1 54576,46519 59,14003	1 84102,91576 49,65235	9,92408,27049,8853 4,90457,5305	10,18914,33717 16,61902	6: 0
9	83952,50499,21109 9,48401,86699	1 54517,32516 59,10815	1 84053,26341 49,61996	9,92403,36592,3548 4,90645,2338	10,18897,71815 16,61642	5:24
8	83943,02097,34410 9,48657,57206	1 54458,21701 59,07628	1 84003,64345 49,58761	9,92398,45947,1210 4,90832,9793	10,18881,10173 16,61382	4:48
7	83933,53439,77204 9,48913,24822	1 54399,14073 59,04445	1 83954,05584 49,55530	9,92393,55114,1417 4,91020,7675	10,18864,48791 16,61123	4:12
6	83924,04526,52382 9,49168,89549	1 54340,09628 59,01265	1 83904,50054 49,52300	9,92388,64093,3742 4,91208,5980	10,18847,87668 16,60862	3:36
5	83914,55357,62833 9,49424,51383	1 54281,08363 58,98088	1 83854,97754 49,49074	9,92383,72884,7762 4,91396,4711	10,18831,26806 16,60604	3: 0
4	83905,05933,11450 9,49680,10326	1 54222,10275 58,94913	1 83805,48680 49,45851	9,92378,81488,3051 4,91584,3866	10,18814,66202 16,60344	2:24
3	83895,56253,01124 9,49935,66375	1 54163,15362 58,91742	1 83756,02829 49,42630	9,92373,89903,9185 4,91772,3447	10,18798,05858 16,60085	1:48
2	83886,06317,34749 9,50191,19532	1 54104,23620 58,88574	1 83706,60199 49,39413	9,92368,98131,5738 4,91960,3454	10,18781,45773 16,59827	1:12
1	83876,56126,15217 9,50446,69793	1 54045,35046 58,85408	1 83657,20786 49,36198	9,92364,06171,2284 4,92148,3887	10,18764,85946 16,59569	0:36
0	83867,05679,45424 9,50702,17160	1 53986,49638 58,82245	1 83607,84588 49,32987	9,92359,14022,8397 4,92336,4746	10,18748,26377 16,59311	0: 0

GRAD. 57.

33. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	54463,90350,15027	64940,75932	1 19236,32928	9,73610,87645,9135	9,81251,73623	0: 0
	14,63673,31432	24,81669	13,51796	11,66974,4606	16,59311	
1	54478,54023,46459	64965,57601	1 19249,84724	9,73622,54620,3741	9,81268,32934	0:36
	14,63507,36320	24,82231	13,52465	11,66528,7138	16,59053	
2	54493,17530,82779	64990,39832	1 19263,37189	9,73634,21149,0879	9,81284,91987	1:12
	14,63341,36750	24,82795	13,53135	11,66083,2065	16,58796	
3	54507,80872,19529	65015,22627	1 19276,90324	9,73645,87232,2944	9,81301,50783	1:48
	14,63175,32721	24,83358	13,53806	11,65637,9384	16,58539	
4	54522,44047,52250	65040,05985	1 19290,44130	9,73657,52870,2328	9,81318,09322	2:24
	14,63009,24236	24,83922	13,54477	11,65192,9092	16,58282	
5	54537,07056,76486	65064,89907	1 19303,98607	9,73669,18063,1420	9,81334,67604	3: 0
	14,62843,11295	24,84486	13,55147	11,64748,1188	16,58026	
6	54551,69899,87781	65089,74393	1 19317,53754	9,73680,82811,2608	9,81351,25630	3:36
	14,62676,93897	24,85051	13,55819	11,64303,5668	16,57770	
7	54566,32576,81678	65114,59444	1 19331,09573	9,73692,47114,8276	9,81367,83400	4:12
	14,62510,72044	24,85616	13,56491	11,63859,2532	16,57513	
8	54580,95087,53722	65139,45060	1 19344,66064	9,73704,10974,0808	9,81384,40913	4:48
	14,62344,45735	24,86181	13,57163	11,63415,1776	16,57258	
9	54595,57431,99457	65164,31241	1 19358,23227	9,73715,74389,2584	9,81400,98171	5:24
	14,62178,14972	24,86746	13,57836	11,62971,3400	16,57002	
10	54610,19610,14429	65189,17987	1 19371,81063	9,73727,37360,5984	9,81417,55173	6: 0
	14,62011,79755	24,87313	13,58508	11,62527,7398	16,56748	
11	54624,81621,94184	65214,05300	1 19385,39571	9,73738,99888,3382	9,81434,11921	6:36
	14,61845,40085	24,87879	13,59181	11,62084,3773	16,56492	
12	54639,43467,34269	65238,93179	1 19398,98752	9,73750,61972,7155	9,81450,68413	7:12
	14,61678,95961	24,88445	13,59854	11,61641,2518	16,56239	
13	54654,05146,30230	65263,81624	1 19412,58606	9,73762,23613,9673	9,81467,24652	7:48
	14,61512,47385	24,89012	13,60528	11,61198,3634	16,55983	
14	54668,66658,77615	65288,70636	1 19426,19134	9,73773,84812,3307	9,81483,80635	8:24
	14,61345,94357	24,89580	13,61202	11,60755,7117	16,55730	
15	54683,28004,71972	65313,60216	1 19439,80336	9,73785,45568,0424	9,81500,36365	9: 0
	14,61179,36878	24,90147	13,61876	11,60313,2966	16,55476	
16	54697,89184,08850	65338,50363	1 19453,42212	9,73797,05881,3390	9,81516,91841	9:36
	14,61012,74946	24,90716	13,62551	11,59871,1179	16,55223	
17	54712,50196,83796	65363,41079	1 19467,04763	9,73808,65752,4569	9,81533,47064	10:12
	14,60846,08566	24,91283	13,63226	11,59429,1752	16,54970	
18	54727,11042,92362	65388,32362	1 19480,67989	9,73820,25181,6321	9,81550,02034	10:48
	14,60679,37734	24,91853	13,63901	11,58987,4684	16,54717	
19	54741,71722,30096	65413,24215	1 19494,31890	9,73831,84169,1005	9,81566,56751	11:24
	14,60512,62454	24,92421	13,64576	11,58545,9974	16,54464	
20	54756,32234,92550	65438,16636	1 19507,96466	9,73843,42715,0979	9,81583,11215	12: 0
	14,60345,82724	24,92991	13,65252	11,58104,7618	16,54212	
21	54770,92580,75274	65463,09627	1 19521,61718	9,73855,00819,8597	9,81599,65427	12:36
	14,60178,98547	24,93560	13,65928	11,57663,7616	16,53960	
22	54785,52759,73821	65488,03187	1 19535,27646	9,73866,58483,6213	9,81616,19387	13:12
	14,60012,09920	24,94131	13,66605	11,57222,9962	16,53708	
23	54800,12771,83741	65512,97318	1 19548,94251	9,73878,15706,6175	9,81632,73095	13:48
	14,59845,16847	24,94701	13,67281	11,56782,4658	16,53457	
24	54814,72617,00588	65537,92019	1 19562,61532	9,73889,72489,0833	9,81649,26552	14:24
	14,59678,19326	24,95272	13,67959	11,56342,1700	16,53205	
25	54829,32295,19914	65562,87291	1 19576,29491	9,73901,28831,2533	9,81665,79757	15: 0
	14,59511,17359	24,95843	13,68636	11,55902,1085	16,52955	
26	54843,91806,37273	65587,83134	1 19589,98127	9,73912,84733,3618	9,81682,32712	15:36
	14,59344,10947	24,96414	13,69314	11,55462,2813	16,52704	
27	54858,51150,48220	65612,79548	1 19603,67441	9,73924,40195,6431	9,81698,85416	16:12
	14,59177,00088	24,96987	13,69991	11,55022,6881	16,52454	
28	54873,10327,48308	65637,76535	1 19617,37432	9,73935,95218,3312	9,81715,37870	16:48
	14,59009,84786	24,97558	13,70670	11,54583,3286	16,52203	
29	54887,69337,33094	65662,74093	1 19631,08102	9,73947,49801,6598	9,81731,90073	17:24
	14,58842,65038	24,98131	13,71349	11,54144,2026	16,51954	
30	54902,28179,98132	65687,72224	1 19644,79451	9,73959,03945,8624	9,81748,42027	18: 0
	14,58675,40846	24,98704	13,72028	11,53705,3100	16,51704	
31	54916,86855,38978	65712,70928	1 19658,51479	9,73970,57651,1724	9,81764,93731	18:36
	14,58508,12212	24,99277	13,72707	11,53266,6505	16,51456	
32	54931,45363,51190	65737,70205	1 19672,24186	9,73982,10917,8229	9,81781,45187	19:12
	14,58340,79134	24,99850	13,73386	11,52828,2239	16,51206	
33	54946,03704,30324	65762,70055	1 19685,97572	9,73993,63746,0468	9,81797,96393	19:48
	14,58173,41614	25,00425	13,74067	11,52390,0300	16,50957	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	83867,05679,45424 9,50702,17160	1 53986,49638 58,82245	1 83607,84588 49,32987	9,92359,14022,8397 4,92336,4746	10,18748,26377 16,59311	60: 0
99	83857,54977,28264 9,50957,61629	1 53927,67393 58,79086	1 83558,51601 49,29777	9,92354,21686,3651 4,92524,6031	10,18731,67066 16,59053	59:24
98	83848,04019,66635 9,51213,03204	1 53868,88307 58,75929	1 83509,21824 49,26572	9,92349,29161,7620 4,92712,7744	10,18715,08013 16,58796	58:48
97	83838,52806,63431 9,51468,41880	1 53810,12378 58,72775	1 83459,95252 49,23369	9,92344,36448,9876 4,92900,9883	10,18698,49217 16,58539	58:12
96	83829,01338,21551 9,51723,77657	1 53751,39603 58,69624	1 83410,71883 49,20168	9,92339,43547,9993 4,93089,2450	10,18681,90678 16,58282	57:36
95	83819,49614,43894 9,51979,10536	1 53692,69979 58,66475	1 83361,51715 49,16972	9,92334,50458,7543 4,93277,5444	10,18665,32396 16,58026	57: 0
94	83809,97635,33358 9,52234,40514	1 53634,03504 58,63331	1 83312,34743 49,13776	9,92329,57181,2099 4,93465,8865	10,18648,74370 16,57770	56:24
93	83800,45400,92844 9,52489,67593	1 53575,40173 58,60188	1 83263,20967 49,10586	9,92324,63715,3234 4,93654,2716	10,18632,16600 16,57513	55:48
92	83790,92911,25251 9,52744,91769	1 53516,79985 58,57048	1 83214,10381 49,07396	9,92319,70061,0518 4,93842,6993	10,18615,59087 16,57258	55:12
91	83781,40166,33482 9,53000,13043	1 53458,22937 58,53912	1 83165,02985 49,04211	9,92314,76218,3525 4,94031,1701	10,18599,01829 16,57002	54:36
90	83771,87166,20439 9,53255,31415	1 53399,69025 58,50779	1 83115,98774 49,01027	9,92309,82187,1824 4,94219,6837	10,18582,44827 16,56748	54: 0
89	83762,33910,89024 9,53510,46882	1 53341,18246 58,47647	1 83066,97747 48,97848	9,92304,87967,4987 4,94408,2401	10,18565,88079 16,56492	53:24
88	83752,80400,42142 9,53765,59446	1 53282,70599 58,44520	1 83017,99899 48,94670	9,92299,93559,2586 4,94596,8395	10,18549,31587 16,56239	52:48
87	83743,26634,82696 9,54020,69103	1 53224,26079 58,41394	1 82969,05229 48,91496	9,92294,98962,4191 4,94785,4819	10,18532,75348 16,55983	52:12
86	83733,72614,13593 9,54275,75854	1 53165,84685 58,38272	1 82920,13733 48,88324	9,92290,04176,9372 4,94974,1673	10,18516,19365 16,55730	51:36
85	83724,18338,37739 9,54530,79699	1 53107,46413 58,35153	1 82871,25409 48,85155	9,92285,09202,7699 4,95162,8956	10,18499,63635 16,55476	51: 0
84	83714,63807,58040 9,54785,80636	1 53049,11260 58,32036	1 82822,40254 48,81990	9,92280,14039,8743 4,95351,6671	10,18483,08159 16,55223	50:24
83	83705,09021,77404 9,55040,78665	1 52990,79224 58,28922	1 82773,58264 48,78826	9,92275,18688,2072 4,95540,4815	10,18466,52936 16,54970	49:48
82	83695,53980,98739 9,55295,73784	1 52932,50302 58,25812	1 82724,79438 48,75667	9,92270,23147,7257 4,95729,3392	10,18449,97966 16,54717	49:12
81	83685,98685,24955 9,55550,65993	1 52874,24490 58,22703	1 82676,03771 48,72508	9,92265,27418,3865 4,95918,2398	10,18433,43249 16,54464	48:36
80	83676,43134,58962 9,55805,55292	1 52816,01787 58,19598	1 82627,31263 48,69354	9,92260,31500,1467 4,96107,1837	10,18416,88785 16,54212	48: 0
79	83666,87329,03670 9,56060,41679	1 52757,82189 58,16496	1 82578,61909 48,66203	9,92255,35392,9630 4,96296,1707	10,18400,34573 16,53960	47:24
78	83657,31268,61991 9,56315,25154	1 52699,65693 58,13397	1 82529,95706 48,63053	9,92250,39096,7923 4,96485,2009	10,18383,80613 16,53708	46:48
77	83647,74953,36837 9,56570,05715	1 52641,52296 58,10300	1 82481,32653 48,59907	9,92245,42611,5914 4,96674,2744	10,18367,26905 16,53457	46:12
76	83638,18383,31122 9,56824,83362	1 52583,41996 58,07206	1 82432,72746 48,56764	9,92240,45937,3170 4,96863,3910	10,18350,73448 16,53205	45:36
75	83628,61558,47760 9,57079,58096	1 52525,34790 58,04115	1 82384,15982 48,53623	9,92235,49073,9260 4,97052,5510	10,18334,20243 16,52955	45: 0
74	83619,04478,89664 9,57334,29914	1 52467,30675 58,01027	1 82335,62359 48,50486	9,92230,52021,3750 4,97241,7543	10,18317,67288 16,52704	44:24
73	83609,47144,59750 9,57588,98815	1 52409,29648 57,97941	1 82287,11873 48,47351	9,92225,54779,6207 4,97431,0009	10,18301,14584 16,52454	43:48
72	83599,89555,60935 9,57843,64799	1 52351,31707 57,94859	1 82238,64522 48,44218	9,92220,57348,6198 4,97620,2909	10,18284,62130 16,52203	43:12
71	83590,31711,96136 9,58098,27866	1 52293,36848 57,91779	1 82190,20304 48,41089	9,92215,59728,3289 4,97809,6242	10,18268,09927 16,51954	42:36
70	83580,73613,68270 9,58352,88014	1 52235,45069 57,88702	1 82141,79215 48,37963	9,92210,61918,7047 4,97999,0010	10,18251,57973 16,51704	42: 0
69	83571,15260,80256 9,58607,45243	1 52177,56367 57,85628	1 82093,41252 48,34839	9,92205,63919,7037 4,98188,4211	10,18235,06269 16,51456	41:24
68	83561,56653,35013 9,58861,99551	1 52119,70739 57,82557	1 82045,06413 48,31717	9,92200,65731,2826 4,98377,8848	10,18218,54813 16,51206	40:48
67	83551,97791,35462 9,59116,50940	1 52061,88182 57,79488	1 81996,74696 48,28600	9,92195,67353,3978 4,98567,3920	10,18202,03607 16,50957	40:12

GRAD. 56.

33. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	54946,03704,30324 14,58173,41614	65762,70055 25,00425	1 19685,97572 13,74067	9,73993,63746,0468 11,52390,0300	9,81797,96393 16,50957	19:48
34	54960,61877,71938 14,58005,99653	65787,70480 25,00999	1 19699,71639 13,74746	9,74005,16136,0768 11,51952,0686	9,81814,47350 16,50709	20:24
35	54975,19883,71591 14,57838,53249	65812,71479 25,01573	1 19713,46385 13,75428	9,74016,68088,1454 11,51514,3395	9,81830,98059 16,50461	21: 0
36	54989,77722,24840 14,57671,02405	65837,73052 25,02149	1 19727,21813 13,76108	9,74028,19602,4849 11,51076,8425	9,81847,48520 16,50213	21:36
37	55004,35393,27245 14,57503,47121	65862,75201 25,02723	1 19740,97921 13,76789	9,74039,70679,3274 11,50639,5772	9,81863,98733 16,49965	22:12
38	55018,92896,74366 14,57335,87396	65887,77924 25,03300	1 19754,74710 13,77471	9,74051,21318,9046 11,50202,5436	9,81880,48698 16,49719	22:48
39	55033,50232,61762 14,57168,23234	65912,81224 25,03875	1 19768,52181 13,78153	9,74062,71521,4482 11,49765,7415	9,81896,98417 16,49471	23:24
40	55048,07400,84996 14,57000,54631	65937,85099 25,04452	1 19782,30334 13,78835	9,74074,21287,1897 11,49329,1706	9,81913,47888 16,49224	24: 0
41	55062,64401,39627 14,56832,81590	65962,89551 25,05028	1 19796,09169 13,79517	9,74085,70616,3603 11,48892,8307	9,81929,97112 16,48978	24:36
42	55077,21234,21217 14,56665,04112	65987,94579 25,05606	1 19809,88686 13,80201	9,74097,19509,1910 11,48456,7216	9,81946,46090 16,48731	25:12
43	55091,77899,25329 14,56497,22197	66013,00185 25,06183	1 19823,68887 13,80883	9,74108,67965,9126 11,48020,8430	9,81962,94821 16,48486	25:48
44	55106,34396,47526 14,56329,35844	66038,06368 25,06761	1 19837,49770 13,81567	9,74120,15986,7556 11,47585,1949	9,81979,43307 16,48240	26:24
45	55120,90725,83370 14,56161,45056	66063,13129 25,07339	1 19851,31337 13,82250	9,74131,63571,9505 11,47149,7769	9,81995,91547 16,47995	27: 0
46	55135,46887,28426 14,55993,49832	66088,20468 25,07917	1 19865,13587 13,82935	9,74143,10721,7274 11,46714,5889	9,82012,39542 16,47749	27:36
47	55150,02880,78258 14,55825,50172	66113,28385 25,08496	1 19878,96522 13,83619	9,74154,57436,3163 11,46279,6307	9,82028,87291 16,47505	28:12
48	55164,58706,28430 14,55657,46078	66138,36881 25,09076	1 19892,80141 13,84304	9,74166,03715,9470 11,45844,9019	9,82045,34796 16,47260	28:48
49	55179,14363,74508 14,55489,37550	66163,45957 25,09655	1 19906,64445 13,84988	9,74177,49560,8489 11,45410,4026	9,82061,82056 16,47016	29:24
50	55193,69853,12058 14,55321,24588	66188,55612 25,10235	1 19920,49433 13,85675	9,74188,94971,2515 11,44976,1323	9,82078,29072 16,46772	30: 0
51	55208,25174,36646 14,55153,07193	66213,65847 25,10815	1 19934,35108 13,86359	9,74200,39947,3838 11,44542,0911	9,82094,75844 16,46528	30:36
52	55222,80327,43839 14,54984,85365	66238,76662 25,11396	1 19948,21467 13,87046	9,74211,84489,4749 11,44108,2784	9,82111,22372 16,46285	31:12
53	55237,35312,29204 14,54816,59104	66263,88058 25,11977	1 19962,08513 13,87732	9,74223,28597,7533 11,43674,6943	9,82127,68657 16,46041	31:48
54	55251,90128,88308 14,54648,28414	66289,00035 25,12558	1 19975,96245 13,88419	9,74234,72272,4476 11,43241,3385	9,82144,14698 16,45798	32:24
55	55266,44777,16722 14,54479,93290	66314,12593 25,13139	1 19989,84664 13,89106	9,74246,15513,7861 11,42808,2108	9,82160,60496 16,45556	33: 0
56	55280,99257,10012 14,54311,53738	66339,25732 25,13722	1 20003,73770 13,89793	9,74257,58321,9969 11,42375,3111	9,82177,06052 16,45314	33:36
57	55295,53568,63750 14,54143,09754	66364,39454 25,14304	1 20017,63563 13,90481	9,74269,00697,3080 11,41942,6388	9,82193,51366 16,45071	34:12
58	55310,07711,73504 14,53974,61341	66389,53758 25,14887	1 20031,54044 13,91169	9,74280,42639,9468 11,41510,1943	9,82209,96437 16,44830	34:48
59	55324,61686,34845 14,53806,08499	66414,68645 25,15470	1 20045,45213 13,91857	9,74291,84150,1411 11,41077,9768	9,82226,41267 16,44587	35:24
60	55339,15492,43344 14,53637,51229	66439,84115 25,16054	1 20059,37070 13,92545	9,74303,25228,1179 11,40645,9865	9,82242,85854 16,44347	36: 0
61	55353,69129,94573 14,53468,89530	66465,00169 25,16637	1 20073,29615 13,93235	9,74314,65874,1044 11,40214,2230	9,82259,30201 16,44106	36:36
62	55368,22598,84103 14,53300,23403	66490,16806 25,17221	1 20087,22850 13,93924	9,74326,06088,3274 11,39782,6863	9,82275,74307 16,43864	37:12
63	55382,75899,07506 14,53131,52851	66515,34027 25,17806	1 20101,16774 13,94613	9,74337,45871,0137 11,39351,3759	9,82292,18171 16,43625	37:48
64	55397,29030,60357 14,52962,77871	66540,51833 25,18391	1 20115,11387 13,95303	9,74348,85222,3896 11,38920,2917	9,82308,61796 16,43384	38:24
65	55411,81993,38228 14,52793,98466	66565,70224 25,18976	1 20129,06690 13,95994	9,74360,24142,6813 11,38489,4337	9,82325,05180 16,43144	39: 0
66	55426,34787,36694 14,52625,14635	66590,89200 25,19562	1 20143,02684 13,96684	9,74371,62632,1150 11,38058,8015	9,82341,48324 16,42905	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	83551,97791,35462 9,59116,50940	1 52061,88182 57,79488	1 81996,74696 48,28600	9,92195,67353,3978 4,98567,3920	10,18202,03607 16,50957	40:12
66	83542,38674,84522 9,59370,99405	1 52004,08694 57,76422	1 81948,46096 48,25484	9,92190,68786,0058 4,98756,9426	10,18185,52650 16,50709	39:36
65	83532,79303,85117 9,59625,44950	1 51946,32272 57,73360	1 81900,20612 48,22371	9,92185,70029,0632 4,98946,5368	10,18169,01941 16,50461	39: 0
64	83523,19678,40167 9,59879,87570	1 51888,58912 57,70299	1 81851,98241 48,19262	9,92180,71082,5264 4,99136,1745	10,18152,51480 16,50213	38:24
63	83513,59798,52597 9,60134,27267	1 51830,88613 57,67242	1 81803,78979 48,16154	9,92175,71946,3519 4,99325,8560	10,18136,01267 16,49965	37:48
62	83503,99664,25330 9,60388,64038	1 51773,21371 57,64187	1 81755,62825 48,13050	9,92170,72620,4959 4,99515,5809	10,18119,51302 16,49719	37:12
61	83494,39275,61292 9,60642,97885	1 51715,57184 57,61136	1 81707,49775 48,09949	9,92165,73104,9150 4,99705,3495	10,18103,01583 16,49471	36:36
60	83484,78632,63407 9,60897,28806	1 51657,96048 57,58086	1 81659,39826 48,06849	9,92160,73399,5655 4,99895,1619	10,18086,52112 16,49224	36: 0
59	83475,17735,34601 9,61151,56798	1 51600,37962 57,55040	1 81611,32977 48,03753	9,92155,73504,4036 5,00085,0179	10,18070,02888 16,48978	35:24
58	83465,56583,77803 9,61405,81864	1 51542,82922 57,51997	1 81563,29224 48,00660	9,92150,73419,3857 5,00274,9176	10,18053,53910 16,48731	34:48
57	83455,95177,95939 9,61660,04000	1 51485,30925 57,48956	1 81515,28564 47,97570	9,92145,73144,4681 5,00464,8611	10,18037,05179 16,48486	34:12
56	83446,33517,91939 9,61914,23207	1 51427,81969 57,45917	1 81467,30994 47,94481	9,92140,72679,6070 5,00654,8483	10,18020,56693 16,48240	33:36
55	83436,71603,68732 9,62168,39485	1 51370,36052 57,42883	1 81419,36513 47,91397	9,92135,72024,7587 5,00844,8795	10,18004,08453 16,47995	33: 0
54	83427,09435,29247 9,62422,52831	1 51312,93169 57,39850	1 81371,45116 47,88314	9,92130,71179,8792 5,01034,9544	10,17987,60458 16,47749	32:24
53	83417,47012,76416 9,62676,63245	1 51255,53319 57,36820	1 81323,56802 47,85234	9,92125,70144,9248 5,01225,0731	10,17971,12709 16,47505	31:48
52	83407,84336,13171 9,62930,70727	1 51198,16499 57,33794	1 81275,71568 47,82157	9,92120,68919,8517 5,01415,2359	10,17954,65204 16,47260	31:12
51	83398,21405,42444 9,63184,75276	1 51140,82705 57,30769	1 81227,89411 47,79084	9,92115,67504,6158 5,01605,4424	10,17938,17944 16,47016	30:36
50	83388,58220,67168 9,63438,76890	1 51083,51936 57,27747	1 81180,10327 47,76011	9,92110,65899,1734 5,01795,6929	10,17921,70928 16,46772	30: 0
49	83378,94781,90278 9,63692,75571	1 51026,24189 57,24729	1 81132,34316 47,72943	9,92105,64103,4805 5,01985,9875	10,17905,24156 16,46528	29:24
48	83369,31089,14707 9,63946,71315	1 50968,99460 57,21713	1 81084,61373 47,69877	9,92100,62117,4930 5,02176,3259	10,17888,77628 16,46285	28:48
47	83359,67142,43392 9,64200,64122	1 50911,77747 57,18700	1 81036,91496 47,66813	9,92095,59941,1671 5,02366,7085	10,17872,31343 16,46041	28:12
46	83350,02941,79270 9,64454,53994	1 50854,59047 57,15689	1 80989,24683 47,63753	9,92090,57574,4586 5,02557,1350	10,17855,85302 16,45798	27:36
45	83340,38487,25276 9,64708,40926	1 50797,43358 57,12681	1 80941,60930 47,60695	9,92085,55017,3236 5,02747,6057	10,17839,39504 16,45556	27: 0
44	83330,73778,84350 9,64962,24921	1 50740,30677 57,09676	1 80894,00235 47,57640	9,92080,52269,7179 5,02938,1204	10,17822,93948 16,45314	26:24
43	83321,08816,59429 9,65216,05976	1 50683,21001 57,06673	1 80846,42595 47,54587	9,92075,49331,5975 5,03128,6793	10,17806,48634 16,45071	25:48
42	83311,43600,53453 9,65469,84090	1 50626,14328 57,03674	1 80798,88008 47,51537	9,92070,46202,9182 5,03319,2823	10,17790,03563 16,44830	25:12
41	83301,78130,69363 9,65723,59264	1 50569,10654 57,00677	1 80751,36471 47,48490	9,92065,42883,6359 5,03509,9295	10,17773,58733 16,44587	24:36
40	83292,12407,10099 9,65977,31495	1 50512,09977 56,97683	1 80703,87981 47,45446	9,92060,39373,7064 5,03700,6210	10,17757,14146 16,44347	24: 0
39	83282,46429,78604 9,66231,00785	1 50455,12294 56,94691	1 80656,42535 47,42404	9,92055,35673,0854 5,03891,3567	10,17740,69799 16,44106	23:24
38	83272,80198,77819 9,66484,67131	1 50398,17603 56,91702	1 80609,00131 47,39365	9,92050,31781,7287 5,04082,1365	10,17724,25693 16,43864	22:48
37	83263,13714,10688 9,66738,30533	1 50341,25901 56,88716	1 80561,60766 47,36329	9,92045,27699,5922 5,04272,9608	10,17707,81829 16,43625	22:12
36	83253,46975,80155 9,66991,90990	1 50284,37185 56,85733	1 80514,24437 47,33294	9,92040,23426,6314 5,04463,8294	10,17691,38204 16,43384	21:36
35	83243,79983,89165 9,67245,48502	1 50227,51452 56,82751	1 80466,91143 47,30264	9,92035,18962,8020 5,04654,7422	10,17674,94820 16,43144	21: 0
34	83234,12738,40663 9,67499,03066	1 50170,68701 56,79774	1 80419,60879 47,27235	9,92030,14308,0598 5,04845,6996	10,17658,51676 16,42905	20:24

GRAD. 56.

33. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	55440,87412,51329	66616,08762	1 20156,99368	9,74383,00690,9165	9,82357,91229	40:12
	14,52456,26378	25,20147	13,97375	11,37628,3948	16,42665	
68	55455,39868,77707	66641,28909	1 20170,96743	9,74394,38319,3113	9,82374,33894	40:48
	14,52287,33698	25,20734	13,98066	11,37198,2137	16,42426	
69	55469,92156,11405	66666,49643	1 20184,94809	9,74405,75517,5250	9,82390,76320	41:24
	14,52118,36594	25,21321	13,98757	11,36768,2577	16,42187	
70	55484,44274,47999	66691,70964	1 20198,93566	9,74417,12285,7827	9,82407,18507	42: 0
	14,51949,35066	25,21907	13,99450	11,36338,5268	16,41948	
71	55498,96223,83065	66716,92871	1 20212,93016	9,74428,48624,3095	9,82423,60455	42:36
	14,51780,29116	25,22495	14,00141	11,35909,0207	16,41710	
72	55513,48004,12181	66742,15366	1 20226,93157	9,74439,84533,3302	9,82440,02165	43:12
	14,51611,18742	25,23083	14,00835	11,35479,7392	16,41472	
73	55527,99615,30923	66767,38449	1 20240,93992	9,74451,20013,0694	9,82456,43637	43:48
	14,51442,03948	25,23671	14,01527	11,35050,6822	16,41235	
74	55542,51057,34871	66792,62120	1 20254,95519	9,74462,55063,7516	9,82472,84872	44:24
	14,51272,84731	25,24259	14,02220	11,34621,8493	16,40997	
75	55557,02330,19602	66817,86379	1 20268,97739	9,74473,89685,6009	9,82489,25869	45: 0
	14,51103,61095	25,24848	14,02913	11,34193,2405	16,40759	
76	55571,53433,80697	66843,11227	1 20283,00652	9,74485,23878,8414	9,82505,66628	45:36
	14,50934,33036	25,25438	14,03608	11,33764,8554	16,40523	
77	55586,04368,13733	66868,36665	1 20297,04260	9,74496,57643,6968	9,82522,07151	46:12
	14,50765,00560	25,26026	14,04301	11,33336,6940	16,40286	
78	55600,55133,14293	66893,62691	1 20311,08561	9,74507,90980,3908	9,82538,47437	46:48
	14,50595,63664	25,26617	14,04997	11,32908,7560	16,40049	
79	55615,05728,77957	66918,89308	1 20325,13558	9,74519,23889,1468	9,82554,87486	47:24
	14,50426,22348	25,27207	14,05690	11,32481,0411	16,39813	
80	55629,56155,00305	66944,16515	1 20339,19248	9,74530,56370,1879	9,82571,27299	48: 0
	14,50256,76614	25,27798	14,06387	11,32053,5494	16,39578	
81	55644,06411,76919	66969,44313	1 20353,25635	9,74541,88423,7373	9,82587,66877	48:36
	14,50087,26464	25,28388	14,07081	11,31626,2804	16,39341	
82	55658,56499,03383	66994,72701	1 20367,32716	9,74553,20050,0177	9,82604,06218	49:12
	14,49917,71895	25,28980	14,07777	11,31199,2340	16,39107	
83	55673,06416,75278	67020,01681	1 20381,40493	9,74564,51249,2517	9,82620,45325	49:48
	14,49748,12910	25,29572	14,08474	11,30772,4100	16,38871	
84	55687,56164,88188	67045,31253	1 20395,48967	9,74575,82021,6617	9,82636,84196	50:24
	14,49578,49509	25,30164	14,09170	11,30345,8082	16,38636	
85	55702,05743,37697	67070,61417	1 20409,58137	9,74587,12367,4699	9,82653,22832	51: 0
	14,49408,81691	25,30756	14,09866	11,29919,4285	16,38402	
86	55716,55152,19388	67095,92173	1 20423,68003	9,74598,42286,8984	9,82669,61234	51:36
	14,49239,09460	25,31349	14,10564	11,29493,2705	16,38167	
87	55731,04391,28848	67121,23522	1 20437,78567	9,74609,71780,1689	9,82685,99401	52:12
	14,49069,32813	25,31942	14,11261	11,29067,3342	16,37934	
88	55745,53460,61661	67146,55464	1 20451,89828	9,74621,00847,5031	9,82702,37335	52:48
	14,48899,51752	25,32536	14,11959	11,28641,6192	16,37699	
89	55760,02360,13413	67171,88000	1 20466,01787	9,74632,29489,1223	9,82718,75034	53:24
	14,48729,66277	25,33129	14,12658	11,28216,1255	16,37467	
90	55774,51089,79690	67197,21129	1 20480,14445	9,74643,57705,2478	9,82735,12501	54: 0
	14,48559,76390	25,33724	14,13355	11,27790,8527	16,37233	
91	55788,99649,56080	67222,54853	1 20494,27800	9,74654,85496,1005	9,82751,49734	54:36
	14,48389,82090	25,34319	14,14054	11,27365,8009	16,36999	
92	55803,48039,38170	67247,89172	1 20508,41854	9,74666,12861,9014	9,82767,86733	55:12
	14,48219,83377	25,34913	14,14754	11,26940,9696	16,36768	
93	55817,96259,21547	67273,24085	1 20522,56608	9,74677,39802,8710	9,82784,23501	55:48
	14,48049,80254	25,35509	14,15453	11,26516,3587	16,36534	
94	55832,44309,01801	67298,59594	1 20536,72061	9,74688,66319,2297	9,82800,60035	56:24
	14,47879,72720	25,36104	14,16152	11,26091,9681	16,36303	
95	55846,92188,74521	67323,95698	1 20550,88213	9,74699,92411,1978	9,82816,96338	57: 0
	14,47709,60774	25,36701	14,16853	11,25667,7974	16,36071	
96	55861,39898,35295	67349,32399	1 20565,05066	9,74711,18078,9952	9,82833,32409	57:36
	14,47539,44418	25,37296	14,17553	11,25243,8467	16,35839	
97	55875,87437,79713	67374,69695	1 20579,22619	9,74722,43322,8419	9,82849,68248	58:12
	14,47369,23655	25,37894	14,18254	11,24820,1155	16,35607	
98	55890,34807,03368	67400,07589	1 20593,40873	9,74733,68142,9574	9,82866,03855	58:48
	14,47198,98480	25,38491	14,18956	11,24396,6038	16,35377	
99	55904,82006,01848	67425,46080	1 20607,59829	9,74744,92539,5612	9,82882,39232	59:24
	14,47028,68899	25,39088	14,19656	11,23973,3113	16,35146	
100	55919,29034,70747	67450,85168	1 20621,79485	9,74756,16512,8725	9,82898,74378	60: 0
	14,46858,34909	25,39687	14,20358	11,23550,2378	16,34915	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	83224,45239,37597 9,67752,54685	1 50113,88927 56,76798	1 80372,33644 47,24210	9,92025,09462,3602 5,05036,7011	10,17642,08771 16,42665	19:48
32	83214,77486,82912 9,68006,03354	1 50057,12129 56,73826	1 80325,09434 47,21187	9,92020,04425,6591 5,05227,7473	10,17625,66106 16,42426	19:12
31	83205,09480,79558 9,68259,49075	1 50000,38303 56,70856	1 80277,88247 47,18166	9,92014,99197,9118 5,05418,8378	10,17609,23680 16,42187	18:36
30	83195,41221,30483 9,68512,91848	1 49943,67447 56,67888	1 80230,70081 47,15148	9,92009,93779,0740 5,05609,9729	10,17592,81493 16,41948	18: 0
29	83185,72708,38635 9,68766,31669	1 49886,99559 56,64923	1 80183,54933 47,12134	9,92004,88169,1011 5,05801,1524	10,17576,39545 16,41710	17:24
28	83176,03942,06966 9,69019,68539	1 49830,34636 56,61962	1 80136,42799 47,09121	9,91999,82367,9487 5,05992,3765	10,17559,97835 16,41472	16:48
27	83166,34922,38427 9,69273,02458	1 49773,72674 56,59002	1 80089,33678 47,06111	9,91994,76375,5722 5,06183,6451	10,17543,56363 16,41235	16:12
26	83156,65649,35969 9,69526,33424	1 49717,13672 56,56045	1 80042,27567 47,03104	9,91989,70191,9271 5,06374,9584	10,17527,15128 16,40997	15:36
25	83146,96123,02545 9,69779,61436	1 49660,57627 56,53092	1 79995,24463 47,00100	9,91984,63816,9687 5,06566,3162	10,17510,74131 16,40759	15: 0
24	83137,26343,41109 9,70032,86496	1 49604,04535 56,50140	1 79948,24363 46,97098	9,91979,57250,6525 5,06757,7187	10,17494,33372 16,40523	14:24
23	83127,56310,54613 9,70286,08599	1 49547,54395 56,47191	1 79901,27265 46,94098	9,91974,50492,9338 5,06949,1658	10,17477,92849 16,40286	13:48
22	83117,86024,46014 9,70539,27747	1 49491,07204 56,44245	1 79854,33167 46,91102	9,91969,43543,7680 5,07140,6578	10,17461,52563 16,40049	13:12
21	83108,15485,18267 9,70792,43939	1 49434,62959 56,41302	1 79807,42065 46,88108	9,91964,36403,1102 5,07332,1943	10,17445,12514 16,39813	12:36
20	83098,44692,74328 9,71045,57173	1 49378,21657 56,38361	1 79760,53957 46,85117	9,91959,29070,9159 5,07523,7757	10,17428,72701 16,39578	12: 0
19	83088,73647,17155 9,71298,67450	1 49321,83296 56,35423	1 79713,68840 46,82128	9,91954,21547,1402 5,07715,4019	10,17412,33123 16,39341	11:24
18	83079,02348,49705 9,71551,74767	1 49265,47873 56,32488	1 79666,86712 46,79142	9,91949,13831,7383 5,07907,0728	10,17395,93782 16,39107	10:48
17	83069,30796,74938 9,71804,79125	1 49209,15385 56,29554	1 79620,07570 46,76159	9,91944,05924,6655 5,08098,7885	10,17379,54675 16,38871	10:12
16	83059,58991,95813 9,72057,80524	1 49152,85831 56,26625	1 79573,31411 46,73178	9,91938,97825,8770 5,08290,5492	10,17363,15804 16,38636	9:36
15	83049,86934,15289 9,72310,78960	1 49096,59206 56,23697	1 79526,58233 46,70199	9,91933,89535,3278 5,08482,3548	10,17346,77168 16,38402	9: 0
14	83040,14623,36329 9,72563,74435	1 49040,35509 56,20772	1 79479,88034 46,67224	9,91928,81052,9730 5,08674,2052	10,17330,38766 16,38167	8:24
13	83030,42059,61894 9,72816,66948	1 48984,14737 56,17849	1 79433,20810 46,64251	9,91923,72378,7678 5,08866,1006	10,17314,00599 16,37934	7:48
12	83020,69242,94946 9,73069,56497	1 48927,96888 56,14930	1 79386,56559 46,61280	9,91918,63512,6672 5,09058,0410	10,17297,62665 16,37699	7:12
11	83010,96173,38449 9,73322,43082	1 48871,81958 56,12013	1 79339,95279 46,58313	9,91913,54454,6262 5,09250,0264	10,17281,24966 16,37467	6:36
10	83001,22850,95367 9,73575,26701	1 48815,69945 56,09098	1 79293,36966 46,55347	9,91908,45204,5998 5,09442,0568	10,17264,87499 16,37233	6: 0
9	82991,49275,68666 9,73828,07356	1 48759,60847 56,06186	1 79246,81619 46,52385	9,91903,35762,5430 5,09634,1322	10,17248,50266 16,36999	5:24
8	82981,75447,61310 9,74080,85044	1 48703,54661 56,03277	1 79200,29234 46,49425	9,91898,26128,4108 5,09826,2528	10,17232,13267 16,36768	4:48
7	82972,01366,76266 9,74333,59765	1 48647,51384 56,00371	1 79153,79809 46,46467	9,91893,16302,1580 5,10018,4185	10,17215,76499 16,36534	4:12
6	82962,27033,16501 9,74586,31517	1 48591,51013 55,97466	1 79107,33342 46,43513	9,91888,06283,7395 5,10210,6293	10,17199,39965 16,36303	3:36
5	82952,52446,84984 9,74839,00301	1 48535,53547 55,94565	1 79060,89829 46,40560	9,91882,96073,1102 5,10402,8852	10,17183,03662 16,36071	3: 0
4	82942,77607,84683 9,75091,66115	1 48479,58982 55,91666	1 79014,49269 46,37610	9,91877,85670,2250 5,10595,1864	10,17166,67591 16,35839	2:24
3	82933,02516,18568 9,75344,28960	1 48423,67316 55,88770	1 78968,11659 46,34664	9,91872,75075,0386 5,10787,5328	10,17150,31752 16,35607	1:48
2	82923,27171,89608 9,75596,88833	1 48367,78546 55,85876	1 78921,76995 46,31719	9,91867,64287,5058 5,10979,9245	10,17133,96145 16,35377	1:12
1	82913,51575,00775 9,75849,45733	1 48311,92670 55,82985	1 78875,45276 46,28776	9,91862,53307,5813 5,11172,3613	10,17117,60768 16,35146	0:36
0	82903,75725,55042 9,76101,99663	1 48256,09685 55,80096	1 78829,16500 46,25838	9,91857,42135,2200 5,11364,8436	10,17101,25622 16,34915	0: 0

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34. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	55919,29034,70747 14,46858,34909	67450,85168 25,39687	1 20621,79485 14,20358	9,74756,16512,8725 11,23550,2378	9,82898,74378 16,34915	0: 0
1	55933,75893,05656 14,46687,96511	67476,24855 25,40284	1 20635,99843 14,21061	9,74767,40063,1103 11,23127,3833	9,82915,09293 16,34684	0:36
2	55948,22581,02167 14,46517,53707	67501,65139 25,40883	1 20650,20904 14,21763	9,74778,63190,4936 11,22704,7473	9,82931,43977 16,34455	1:12
3	55962,69098,55874 14,46347,06497	67527,06022 25,41483	1 20664,42667 14,22465	9,74789,85895,2409 11,22282,3299	9,82947,78432 16,34225	1:48
4	55977,15445,62371 14,46176,54881	67552,47505 25,42081	1 20678,65132 14,23169	9,74801,08177,5708 11,21860,1306	9,82964,12657 16,33995	2:24
5	55991,61622,17252 14,46005,98858	67577,89586 25,42681	1 20692,88301 14,23872	9,74812,30037,7014 11,21438,1495	9,82980,46652 16,33767	3: 0
6	56006,07628,16110 14,45835,38433	67603,32267 25,43282	1 20707,12173 14,24576	9,74823,51475,8509 11,21016,3862	9,82996,80419 16,33537	3:36
7	56020,53463,54543 14,45664,73602	67628,75549 25,43882	1 20721,36749 14,25280	9,74834,72492,2371 11,20594,8406	9,83013,13956 16,33308	4:12
8	56034,99128,28145 14,45494,04367	67654,19431 25,44482	1 20735,62029 14,25985	9,74845,93087,0777 11,20173,5125	9,83029,47264 16,33080	4:48
9	56049,44622,32512 14,45323,30730	67679,63913 25,45084	1 20749,88014 14,26689	9,74857,13260,5902 11,19752,4016	9,83045,80344 16,32851	5:24
10	56063,89945,63242 14,45152,52689	67705,08997 25,45685	1 20764,14703 14,27394	9,74868,33012,9918 11,19331,5079	9,83062,13195 16,32624	6: 0
11	56078,35098,15931 14,44981,70247	67730,54682 25,46288	1 20778,42097 14,28100	9,74879,52344,4997 11,18910,8311	9,83078,45819 16,32396	6:36
12	56092,80079,86178 14,44810,83403	67756,00970 25,46889	1 20792,70197 14,28806	9,74890,71255,3308 11,18490,3709	9,83094,78215 16,32169	7:12
13	56107,24890,69581 14,44639,92157	67781,47859 25,47493	1 20806,99003 14,29512	9,74901,89745,7017 11,18070,1274	9,83111,10384 16,31941	7:48
14	56121,69530,61738 14,44468,96511	67806,95352 25,48095	1 20821,28515 14,30218	9,74913,07815,8291 11,17650,1000	9,83127,42325 16,31714	8:24
15	56136,13999,58249 14,44297,96465	67832,43447 25,48699	1 20835,58733 14,30925	9,74924,25465,9291 11,17230,2889	9,83143,74039 16,31488	9: 0
16	56150,58297,54714 14,44126,92020	67857,92146 25,49302	1 20849,89658 14,31633	9,74935,42696,2180 11,16810,6937	9,83160,05527 16,31262	9:36
17	56165,02424,46734 14,43955,83175	67883,41448 25,49907	1 20864,21291 14,32340	9,74946,59506,9117 11,16391,3143	9,83176,36789 16,31035	10:12
18	56179,46380,29909 14,43784,69931	67908,91355 25,50511	1 20878,53631 14,33047	9,74957,75898,2260 11,15972,1503	9,83192,67824 16,30809	10:48
19	56193,90164,99840 14,43613,52291	67934,41866 25,51116	1 20892,86678 14,33756	9,74968,91870,3763 11,15553,2018	9,83208,98633 16,30584	11:24
20	56208,33778,52131 14,43442,30251	67959,92982 25,51722	1 20907,20434 14,34464	9,74980,07423,5781 11,15134,4684	9,83225,29217 16,30359	12: 0
21	56222,77220,82382 14,43271,03816	67985,44704 25,52327	1 20921,54898 14,35174	9,74991,22558,0465 11,14715,9500	9,83241,59576 16,30133	12:36
22	56237,20491,86198 14,43099,72983	68010,97031 25,52933	1 20935,90072 14,35882	9,75002,37273,9965 11,14297,6464	9,83257,89709 16,29909	13:12
23	56251,63591,59181 14,42928,37756	68036,49964 25,53539	1 20950,25954 14,36592	9,75013,51571,6429 11,13879,5574	9,83274,19618 16,29684	13:48
24	56266,06519,96937 14,42756,98132	68062,03503 25,54146	1 20964,62546 14,37302	9,75024,65451,2003 11,13461,6828	9,83290,49302 16,29460	14:24
25	56280,49276,95069 14,42585,54113	68087,57649 25,54753	1 20978,99848 14,38012	9,75035,78912,8831 11,13044,0224	9,83306,78762 16,29235	15: 0
26	56294,91862,49182 14,42414,05700	68113,12402 25,55361	1 20993,37860 14,38722	9,75046,91956,9055 11,12626,5761	9,83323,07997 16,29012	15:36
27	56309,34276,54882 14,42242,52894	68138,67763 25,55968	1 21007,76582 14,39434	9,75058,04583,4816 11,12209,3435	9,83339,37009 16,28789	16:12
28	56323,76519,07776 14,42070,95694	68164,23731 25,56577	1 21022,16016 14,40144	9,75069,16792,8251 11,11792,3247	9,83355,65798 16,28565	16:48
29	56338,18590,03470 14,41899,34101	68189,80308 25,57186	1 21036,56160 14,40856	9,75080,28585,1498 11,11375,5193	9,83371,94363 16,28342	17:24
30	56352,60489,37571 14,41727,68117	68215,37494 25,57794	1 21050,97016 14,41569	9,75091,39960,6691 11,10958,9271	9,83388,22705 16,28120	18: 0
31	56367,02217,05688 14,41555,97739	68240,95288 25,58404	1 21065,38585 14,42280	9,75102,50919,5962 11,10542,5481	9,83404,50825 16,27897	18:36
32	56381,43773,03427 14,41384,22971	68266,53692 25,59013	1 21079,80865 14,42993	9,75113,61462,1443 11,10126,3819	9,83420,78722 16,27674	19:12
33	56395,85157,26398 14,41212,43812	68292,12705 25,59624	1 21094,23858 14,43706	9,75124,71588,5262 11,09710,4284	9,83437,06396 16,27453	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	82903,75725,55042 9,76101,99663	1 48256,09685 55,80096	1 78829,16500 46,25838	9,91857,42135,2200 5,11364,8436	10,17101,25622 16,34915	60: 0
99	82893,99623,55379 9,76354,50617	1 48200,29589 55,77211	1 78782,90662 46,22900	9,91852,30770,3764 5,11557,3711	10,17084,90707 16,34684	59:24
98	82884,23269,04762 9,76606,98599	1 48144,52378 55,74327	1 78736,67762 46,19966	9,91847,19213,0053 5,11749,9441	10,17068,56023 16,34455	58:48
97	82874,46662,06163 9,76859,43604	1 48088,78051 55,71447	1 78690,47796 46,17035	9,91842,07463,0612 5,11942,5624	10,17052,21568 16,34225	58:12
96	82864,69802,62559 9,77111,85635	1 48033,06604 55,68568	1 78644,30761 46,14105	9,91836,95520,4988 5,12135,2260	10,17035,87343 16,33995	57:36
95	82854,92690,76924 9,77364,24689	1 47977,38036 55,65692	1 78598,16656 46,11178	9,91831,83385,2728 5,12327,9353	10,17019,53348 16,33767	57: 0
94	82845,15326,52235 9,77616,60766	1 47921,72344 55,62820	1 78552,05478 46,08255	9,91826,71057,3375 5,12520,6899	10,17003,19581 16,33537	56:24
93	82835,37709,91469 9,77868,93865	1 47866,09524 55,59949	1 78505,97223 46,05333	9,91821,58536,6476 5,12713,4900	10,16986,86044 16,33308	55:48
92	82825,59840,97604 9,78121,23984	1 47810,49575 55,57081	1 78459,91890 46,02414	9,91816,45823,1576 5,12906,3357	10,16970,52736 16,33080	55:12
91	82815,81719,73620 9,78373,51126	1 47754,92494 55,54215	1 78413,89476 45,99497	9,91811,32916,8219 5,13099,2269	10,16954,19656 16,32851	54:36
90	82806,03346,22494 9,78625,75285	1 47699,38279 55,51353	1 78367,89979 45,96584	9,91806,19817,5950 5,13292,1637	10,16937,86805 16,32624	54: 0
89	82796,24720,47209 9,78877,96464	1 47643,86926 55,48493	1 78321,93395 45,93672	9,91801,06525,4313 5,13485,1462	10,16921,54181 16,32396	53:24
88	82786,45842,50745 9,79130,14662	1 47588,38433 55,45635	1 78275,99723 45,90763	9,91795,93040,2851 5,13678,1742	10,16905,21785 16,32169	52:48
87	82776,66712,36083 9,79382,29876	1 47532,92798 55,42779	1 78230,08960 45,87857	9,91790,79362,1109 5,13871,2479	10,16888,89616 16,31941	52:12
86	82766,87330,06207 9,79634,42108	1 47477,50019 55,39927	1 78184,21103 45,84953	9,91785,65490,8630 5,14064,3674	10,16872,57675 16,31714	51:36
85	82757,07695,64099 9,79886,51355	1 47422,10092 55,37077	1 78138,36150 45,82051	9,91780,51426,4956 5,14257,5325	10,16856,25961 16,31488	51: 0
84	82747,27809,12744 9,80138,57617	1 47366,73015 55,34229	1 78092,54099 45,79153	9,91775,37168,9631 5,14450,7434	10,16839,94473 16,31262	50:24
83	82737,47670,55127 9,80390,60894	1 47311,38786 55,31384	1 78046,74946 45,76257	9,91770,22718,2197 5,14644,0000	10,16823,63211 16,31035	49:48
82	82727,67279,94233 9,80642,61184	1 47256,07402 55,28542	1 78000,98689 45,73363	9,91765,08074,2197 5,14837,3026	10,16807,32176 16,30809	49:12
81	82717,86637,33049 9,80894,58487	1 47200,78860 55,25702	1 77955,25326 45,70471	9,91759,93236,9171 5,15030,6509	10,16791,01367 16,30584	48:36
80	82708,05742,74562 9,81146,52802	1 47145,53158 55,22864	1 77909,54855 45,67583	9,91754,78206,2662 5,15224,0450	10,16774,70783 16,30359	48: 0
79	82698,24596,21760 9,81398,44128	1 47090,30294 55,20029	1 77863,87272 45,64697	9,91749,62982,2212 5,15417,4852	10,16758,40424 16,30133	47:24
78	82688,43197,77632 9,81650,32465	1 47035,10265 55,17197	1 77818,22575 45,61812	9,91744,47564,7360 5,15610,9711	10,16742,10291 16,29909	46:48
77	82678,61547,45167 9,81902,17812	1 46979,93068 55,14367	1 77772,60763 45,58932	9,91739,31953,7649 5,15804,5031	10,16725,80382 16,29684	46:12
76	82668,79645,27355 9,82154,00166	1 46924,78701 55,11540	1 77727,01831 45,56053	9,91734,16149,2618 5,15998,0810	10,16709,50698 16,29460	45:36
75	82658,97491,27189 9,82405,79531	1 46869,67161 55,08714	1 77681,45778 45,53176	9,91729,00151,1808 5,16191,7049	10,16693,21238 16,29235	45: 0
74	82649,15085,47658 9,82657,55901	1 46814,58447 55,05893	1 77635,92602 45,50303	9,91723,83959,4759 5,16385,3749	10,16676,92003 16,29012	44:24
73	82639,32427,91757 9,82909,29279	1 46759,52554 55,03072	1 77590,42299 45,47431	9,91718,67574,1010 5,16579,0909	10,16660,62991 16,28789	43:48
72	82629,49518,62478 9,83160,99663	1 46704,49482 55,00255	1 77544,94868 45,44563	9,91713,50995,0101 5,16772,8530	10,16644,34202 16,28565	43:12
71	82619,66357,62815 9,83412,67051	1 46649,49227 54,97440	1 77499,50305 45,41696	9,91708,34222,1571 5,16966,6613	10,16628,05637 16,28342	42:36
70	82609,82944,95764 9,83664,31444	1 46594,51787 54,94628	1 77454,08609 45,38833	9,91703,17255,4958 5,17160,5156	10,16611,77295 16,28120	42: 0
69	82599,99280,64320 9,83915,92841	1 46539,57159 54,91818	1 77408,69776 45,35971	9,91698,00094,9802 5,17354,4162	10,16595,49175 16,27897	41:24
68	82590,15364,71479 9,84167,51241	1 46484,65341 54,89010	1 77363,33805 45,33112	9,91692,82740,5640 5,17548,3629	10,16579,21278 16,27674	40:48
67	82580,31197,20238 9,84419,06642	1 46429,76331 54,86206	1 77318,00693 45,30256	9,91687,65192,2011 5,17742,3559	10,16562,93604 16,27453	40:12

GRAD. 55.

34. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	56395,85157,26398 14,41212,43812	68292,12705 25,59624	1 21094,23858 14,43706	9,75124,71588,5262 11,09710,4284	9,83437,06396 16,27453	19:48
34	56410,26369,70210 14,41040,60264	68317,72329 25,60234	1 21108,67564 14,44419	9,75135,81298,9546 11,09294,6875	9,83453,33849 16,27231	20:24
35	56424,67410,30474 14,40868,72325	68343,32563 25,60845	1 21123,11983 14,45133	9,75146,90593,6421 11,08879,1589	9,83469,61080 16,27010	21: 0
36	56439,08279,02799 14,40696,79997	68368,93408 25,61456	1 21137,57116 14,45847	9,75157,99472,8010 11,08463,8424	9,83485,88090 16,26788	21:36
37	56453,48975,82796 14,40524,83281	68394,54864 25,62068	1 21152,02963 14,46561	9,75169,07936,6434 11,08048,7378	9,83502,14878 16,26568	22:12
38	56467,89500,66077 14,40352,82177	68420,16932 25,62679	1 21166,49524 14,47276	9,75180,15985,3812 11,07633,8451	9,83518,41446 16,26347	22:48
39	56482,29853,48254 14,40180,76684	68445,79611 25,63292	1 21180,96800 14,47991	9,75191,23619,2263 11,07219,1639	9,83534,67793 16,26126	23:24
40	56496,70034,24938 14,40008,66805	68471,42903 25,63905	1 21195,44791 14,48706	9,75202,30838,3902 11,06804,6941	9,83550,93919 16,25906	24: 0
41	56511,10042,91743 14,39836,52540	68497,06808 25,64518	1 21209,93497 14,49422	9,75213,37643,0843 11,06390,4355	9,83567,19825 16,25687	24:36
42	56525,49879,44283 14,39664,33888	68522,71326 25,65131	1 21224,42919 14,50138	9,75224,44033,5198 11,05976,3879	9,83583,45512 16,25467	25:12
43	56539,89543,78171 14,39492,10852	68548,36457 25,65746	1 21238,93057 14,50854	9,75235,50009,9077 11,05562,5511	9,83599,70979 16,25247	25:48
44	56554,29035,89023 14,39319,83429	68574,02203 25,66359	1 21253,43911 14,51571	9,75246,55572,4588 11,05148,9250	9,83615,96226 16,25028	26:24
45	56568,68355,72452 14,39147,51623	68599,68562 25,66974	1 21267,95482 14,52289	9,75257,60721,3838 11,04735,5094	9,83632,21254 16,24810	27: 0
46	56583,07503,24075 14,38975,15433	68625,35536 25,67589	1 21282,47771 14,53005	9,75268,65456,8932 11,04322,3040	9,83648,46064 16,24590	27:36
47	56597,46478,39508 14,38802,74859	68651,03125 25,68205	1 21297,00776 14,53724	9,75279,69779,1972 11,03909,3087	9,83664,70654 16,24373	28:12
48	56611,85281,14367 14,38630,29902	68676,71330 25,68820	1 21311,54500 14,54441	9,75290,73688,5059 11,03496,5233	9,83680,95027 16,24154	28:48
49	56626,23911,44269 14,38457,80564	68702,40150 25,69436	1 21326,08941 14,55160	9,75301,77185,0292 11,03083,9476	9,83697,19181 16,23937	29:24
50	56640,62369,24833 14,38285,26843	68728,09586 25,70053	1 21340,64101 14,55879	9,75312,80268,9768 11,02671,5815	9,83713,43118 16,23719	30: 0
51	56655,00654,51676 14,38112,68741	68753,79639 25,70669	1 21355,19980 14,56598	9,75323,82940,5583 11,02259,4247	9,83729,66837 16,23501	30:36
52	56669,38767,20417 14,37940,06259	68779,50308 25,71287	1 21369,76578 14,57317	9,75334,85199,9830 11,01847,4770	9,83745,90338 16,23285	31:12
53	56683,76707,26676 14,37767,39396	68805,21595 25,71905	1 21384,33895 14,58037	9,75345,87047,4600 11,01435,7383	9,83762,13623 16,23067	31:48
54	56698,14474,66072 14,37594,68153	68830,93500 25,72522	1 21398,91932 14,58758	9,75356,88483,1983 11,01024,2085	9,83778,36690 16,22852	32:24
55	56712,52069,34225 14,37421,92531	68856,66022 25,73141	1 21413,50690 14,59478	9,75367,89507,4068 11,00612,8872	9,83794,59542 16,22634	33: 0
56	56726,89491,26756 14,37249,12532	68882,39163 25,73760	1 21428,10168 14,60199	9,75378,90120,2940 11,00201,7744	9,83810,82176 16,22419	33:36
57	56741,26740,39288 14,37076,28153	68908,12923 25,74379	1 21442,70367 14,60920	9,75389,90322,0684 10,99790,8698	9,83827,04595 16,22203	34:12
58	56755,63816,67441 14,36903,39396	68933,87302 25,74998	1 21457,31287 14,61642	9,75400,90112,9382 10,99380,1733	9,83843,26798 16,21988	34:48
59	56770,00720,06837 14,36730,46264	68959,62300 25,75619	1 21471,92929 14,62363	9,75411,89493,1115 10,98969,6845	9,83859,48786 16,21772	35:24
60	56784,37450,53101 14,36557,48754	68985,37919 25,76238	1 21486,55292 14,63086	9,75422,88462,7960 10,98559,4037	9,83875,70558 16,21557	36: 0
61	56798,74008,01855 14,36384,46869	69011,14157 25,76860	1 21501,18378 14,63809	9,75433,87022,1997 10,98149,3301	9,83891,92115 16,21342	36:36
62	56813,10392,48724 14,36211,40608	69036,91017 25,77480	1 21515,82187 14,64532	9,75444,85171,5298 10,97739,4641	9,83908,13457 16,21128	37:12
63	56827,46603,89332 14,36038,29971	69062,68497 25,78102	1 21530,46719 14,65255	9,75455,82910,9939 10,97329,8050	9,83924,34585 16,20914	37:48
64	56841,82642,19303 14,35865,14961	69088,46599 25,78723	1 21545,11974 14,65979	9,75466,80240,7989 10,96920,3531	9,83940,55499 16,20699	38:24
65	56856,18507,34264 14,35691,95577	69114,25322 25,79346	1 21559,77953 14,66702	9,75477,77161,1520 10,96511,1078	9,83956,76198 16,20486	39: 0
66	56870,54199,29841 14,35518,71819	69140,04668 25,79968	1 21574,44655 14,67428	9,75488,73672,2598 10,96102,0691	9,83972,96684 16,20273	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	82580,31197,20238 9,84419,06642	1 46429,76331 54,86206	1 77318,00693 45,30256	9,91687,65192,2011 5,17742,3559	10,16562,93604 16,27453	40:12
66	82570,46778,13596 9,84670,59044	1 46374,90125 54,83403	1 77272,70437 45,27401	9,91682,47449,8452 5,17936,3951	10,16546,66151 16,27231	39:36
65	82560,62107,54552 9,84922,08448	1 46320,06722 54,80603	1 77227,43036 45,24550	9,91677,29513,4501 5,18130,4806	10,16530,38920 16,27010	39: 0
64	82550,77185,46104 9,85173,54851	1 46265,26119 54,77806	1 77182,18486 45,21702	9,91672,11382,9695 5,18324,6125	10,16514,11910 16,26788	38:24
63	82540,92011,91253 9,85424,98253	1 46210,48313 54,75011	1 77136,96784 45,18854	9,91666,93058,3570 5,18518,7907	10,16497,85122 16,26568	37:48
62	82531,06586,93000 9,85676,38654	1 46155,73302 54,72218	1 77091,77930 45,16010	9,91661,74539,5663 5,18713,0153	10,16481,58554 16,26347	37:12
61	82521,20910,54346 9,85927,76051	1 46101,01084 54,69428	1 77046,61920 45,13169	9,91656,55826,5510 5,18907,2862	10,16465,32207 16,26126	36:36
60	82511,34982,78295 9,86179,10445	1 46046,31656 54,66641	1 77001,48751 45,10329	9,91651,36919,2648 5,19101,6035	10,16449,06081 16,25906	36: 0
59	82501,48803,67850 9,86430,41836	1 45991,65015 54,63855	1 76956,38422 45,07493	9,91646,17817,6613 5,19295,9675	10,16432,80175 16,25687	35:24
58	82491,62373,26014 9,86681,70222	1 45937,01160 54,61073	1 76911,30929 45,04658	9,91640,98521,6938 5,19490,3778	10,16416,54488 16,25467	34:48
57	82481,75691,55792 9,86932,95601	1 45882,40087 54,58292	1 76866,26271 45,01826	9,91635,79031,3160 5,19684,8346	10,16400,29021 16,25247	34:12
56	82471,88758,60191 9,87184,17975	1 45827,81795 54,55515	1 76821,24445 44,98997	9,91630,59346,4814 5,19879,3380	10,16384,03774 16,25028	33:36
55	82462,01574,42216 9,87435,37341	1 45773,26280 54,52739	1 76776,25448 44,96170	9,91625,39467,1434 5,20073,8880	10,16367,78746 16,24810	33: 0
54	82452,14139,04875 9,87686,53700	1 45718,73541 54,49967	1 76731,29278 44,93345	9,91620,19393,2554 5,20268,4845	10,16351,53936 16,24590	32:24
53	82442,26452,51175 9,87937,67049	1 45664,23574 54,47196	1 76686,35933 44,90523	9,91614,99124,7709 5,20463,1278	10,16335,29346 16,24373	31:48
52	82432,38514,84126 9,88188,77390	1 45609,76378 54,44429	1 76641,45410 44,87703	9,91609,78661,6431 5,20657,8176	10,16319,04973 16,24154	31:12
51	82422,50326,06736 9,88439,84720	1 45555,31949 54,41662	1 76596,57707 44,84886	9,91604,58003,8255 5,20852,5541	10,16302,80819 16,23937	30:36
50	82412,61886,22016 9,88690,89040	1 45500,90287 54,38900	1 76551,72821 44,82070	9,91599,37151,2714 5,21047,3374	10,16286,56882 16,23719	30: 0
49	82402,73195,32976 9,88941,90347	1 45446,51387 54,36139	1 76506,90751 44,79259	9,91594,16103,9340 5,21242,1674	10,16270,33163 16,23501	29:24
48	82392,84253,42629 9,89192,88642	1 45392,15248 54,33381	1 76462,11492 44,76448	9,91588,94861,7666 5,21437,0442	10,16254,09662 16,23285	28:48
47	82382,95060,53987 9,89443,83923	1 45337,81867 54,30625	1 76417,35044 44,73640	9,91583,73424,7224 5,21631,9677	10,16237,86377 16,23067	28:12
46	82373,05616,70064 9,89694,76192	1 45283,51242 54,27871	1 76372,61404 44,70835	9,91578,51792,7547 5,21826,9382	10,16221,63310 16,22852	27:36
45	82363,15921,93872 9,89945,65445	1 45229,23371 54,25121	1 76327,90569 44,68033	9,91573,29965,8165 5,22021,9554	10,16205,40458 16,22634	27: 0
44	82353,25976,28427 9,90196,51682	1 45174,98250 54,22372	1 76283,22536 44,65232	9,91568,07943,8611 5,22217,0195	10,16189,17824 16,22419	26:24
43	82343,35779,76745 9,90447,34903	1 45120,75878 54,19626	1 76238,57304 44,62433	9,91562,85726,8416 5,22412,1307	10,16172,95405 16,22203	25:48
42	82333,45332,41842 9,90698,15107	1 45066,56252 54,16882	1 76193,94871 44,59638	9,91557,63314,7109 5,22607,2886	10,16156,73202 16,21988	25:12
41	82323,54634,26735 9,90948,92293	1 45012,39370 54,14142	1 76149,35233 44,56845	9,91552,40707,4223 5,22802,4936	10,16140,51214 16,21772	24:36
40	82313,63685,34442 9,91199,66461	1 44958,25228 54,11402	1 76104,78388 44,54054	9,91547,17904,9287 5,22997,7457	10,16124,29442 16,21557	24: 0
39	82303,72485,67981 9,91450,37609	1 44904,13826 54,08666	1 76060,24334 44,51265	9,91541,94907,1830 5,23193,0446	10,16108,07885 16,21342	23:24
38	82293,81035,30372 9,91701,05738	1 44850,05160 54,05931	1 76015,73069 44,48479	9,91536,71714,1384 5,23388,3907	10,16091,86543 16,21128	22:48
37	82283,89334,24634 9,91951,70844	1 44795,99229 54,03200	1 75971,24590 44,45696	9,91531,48325,7477 5,23583,7839	10,16075,65415 16,20914	22:12
36	82273,97382,53790 9,92202,32930	1 44741,96029 54,00471	1 75926,78894 44,42914	9,91526,24741,9638 5,23779,2242	10,16059,44501 16,20699	21:36
35	82264,05180,20860 9,92452,91993	1 44687,95558 53,97744	1 75882,35980 44,40135	9,91521,00962,7396 5,23974,7117	10,16043,23802 16,20486	21: 0
34	82254,12727,28867 9,92703,48034	1 44633,97814 53,95020	1 75837,95845 44,37358	9,91515,76988,0279 5,24170,2462	10,16027,03316 16,20273	20:24

GRAD. 55.

34. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	56884,89718,01660	69165,84636	1 21589,12083	9,75499,69774,3289	9,83989,16957	40:12
	14,35345,43688	25,80592	14,68152	10,95693,2370	16,20059	
68	56899,25063,45348	69191,65228	1 21603,80235	9,75510,65467,5659	9,84005,37016	40:48
	14,35172,11185	25,81214	14,68877	10,95284,6110	16,19846	
69	56913,60235,56533	69217,46442	1 21618,49112	9,75521,60752,1769	9,84021,56862	41:24
	14,34998,74311	25,81839	14,69602	10,94876,1911	16,19633	
70	56927,95234,30844	69243,28281	1 21633,18714	9,75532,55628,3680	9,84037,76495	42: 0
	14,34825,33065	25,82462	14,70328	10,94467,9770	16,19421	
71	56942,30059,63909	69269,10743	1 21647,89042	9,75543,50096,3450	9,84053,95916	42:36
	14,34651,87448	25,83088	14,71055	10,94059,9687	16,19208	
72	56956,64711,51357	69294,93831	1 21662,60097	9,75554,44156,3137	9,84070,15124	43:12
	14,34478,37462	25,83712	14,71781	10,93652,1659	16,18997	
73	56970,99189,88819	69320,77543	1 21677,31878	9,75565,37808,4796	9,84086,34121	43:48
	14,34304,83105	25,84337	14,72508	10,93244,5683	16,18785	
74	56985,33494,71924	69346,61880	1 21692,04386	9,75576,31053,0479	9,84102,52906	44:24
	14,34131,24379	25,84963	14,73235	10,92837,1761	16,18573	
75	56999,67625,96303	69372,46843	1 21706,77621	9,75587,23890,2240	9,84118,71479	45: 0
	14,33957,61285	25,85589	14,73963	10,92429,9886	16,18363	
76	57014,01583,57588	69398,32432	1 21721,51584	9,75598,16320,2126	9,84134,89842	45:36
	14,33783,93823	25,86215	14,74690	10,92023,0062	16,18151	
77	57028,35367,51411	69424,18647	1 21736,26274	9,75609,08343,2188	9,84151,07993	46:12
	14,33610,21992	25,86842	14,75419	10,91616,2282	16,17940	
78	57042,68977,73403	69450,05489	1 21751,01693	9,75619,99959,4470	9,84167,25933	46:48
	14,33436,45796	25,87469	14,76148	10,91209,6546	16,17730	
79	57057,02414,19199	69475,92958	1 21765,77841	9,75630,91169,1016	9,84183,43663	47:24
	14,33262,65233	25,88097	14,76876	10,90803,2855	16,17520	
80	57071,35676,84432	69501,81055	1 21780,54717	9,75641,81972,3871	9,84199,61183	48: 0
	14,33088,80303	25,88725	14,77606	10,90397,1203	16,17310	
81	57085,68765,64735	69527,69780	1 21795,32323	9,75652,72369,5074	9,84215,78493	48:36
	14,32914,91008	25,89353	14,78336	10,89991,1590	16,17100	
82	57100,01680,55743	69553,59133	1 21810,10659	9,75663,62360,6664	9,84231,95593	49:12
	14,32740,97348	25,89982	14,79066	10,89585,4015	16,16891	
83	57114,34421,53091	69579,49115	1 21824,89725	9,75674,51946,0679	9,84248,12484	49:48
	14,32566,99325	25,90611	14,79796	10,89179,8475	16,16681	
84	57128,66988,52416	69605,39726	1 21839,69521	9,75685,41125,9154	9,84264,29165	50:24
	14,32392,96936	25,91241	14,80527	10,88774,4969	16,16472	
85	57142,99381,49352	69631,30967	1 21854,50048	9,75696,29900,4123	9,84280,45637	51: 0
	14,32218,90185	25,91871	14,81258	10,88369,3494	16,16264	
86	57157,31600,39537	69657,22838	1 21869,31306	9,75707,18269,7617	9,84296,61901	51:36
	14,32044,79071	25,92500	14,81989	10,87964,4051	16,16055	
87	57171,63645,18608	69683,15338	1 21884,13295	9,75718,06234,1668	9,84312,77956	52:12
	14,31870,63594	25,93132	14,82722	10,87559,6635	16,15848	
88	57185,95515,82202	69709,08470	1 21898,96017	9,75728,93793,8303	9,84328,93804	52:48
	14,31696,43757	25,93762	14,83453	10,87155,1245	16,15639	
89	57200,27212,25959	69735,02232	1 21913,79470	9,75739,80948,9548	9,84345,09443	53:24
	14,31522,19557	25,94394	14,84186	10,86750,7882	16,15431	
90	57214,58734,45516	69760,96626	1 21928,63656	9,75750,67699,7430	9,84361,24874	54: 0
	14,31347,90998	25,95026	14,84919	10,86346,6540	16,15224	
91	57228,90082,36514	69786,91652	1 21943,48575	9,75761,54046,3970	9,84377,40098	54:36
	14,31173,58077	25,95658	14,85653	10,85942,7220	16,15017	
92	57243,21255,94591	69812,87310	1 21958,34228	9,75772,39989,1190	9,84393,55115	55:12
	14,30999,20798	25,96291	14,86386	10,85538,9920	16,14810	
93	57257,52255,15389	69838,83601	1 21973,20614	9,75783,25528,1110	9,84409,69925	55:48
	14,30824,79158	25,96924	14,87120	10,85135,4637	16,14603	
94	57271,83079,94547	69864,80525	1 21988,07734	9,75794,10663,5747	9,84425,84528	56:24
	14,30650,33162	25,97557	14,87854	10,84732,1371	16,14396	
95	57286,13730,27709	69890,78082	1 22002,95588	9,75804,95395,7118	9,84441,98924	57: 0
	14,30475,82806	25,98191	14,88589	10,84329,0118	16,14191	
96	57300,44206,10515	69916,76273	1 22017,84177	9,75815,79724,7236	9,84458,13115	57:36
	14,30301,28094	25,98825	14,89324	10,83926,0878	16,13984	
97	57314,74507,38609	69942,75098	1 22032,73501	9,75826,63650,8114	9,84474,27099	58:12
	14,30126,69024	25,99460	14,90060	10,83523,3650	16,13779	
98	57329,04634,07633	69968,74558	1 22047,63561	9,75837,47174,1764	9,84490,40878	58:48
	14,29952,05597	26,00094	14,90795	10,83120,8429	16,13573	
99	57343,34586,13230	69994,74652	1 22062,54356	9,75848,30295,0193	9,84506,54451	59:24
	14,29777,37816	26,00730	14,91532	10,82718,5217	16,13368	
100	57357,64363,51046	70020,75382	1 22077,45888	9,75859,13013,5410	9,84522,67819	60: 0
	14,29602,65678	26,01366	14,92268	10,82316,4009	16,13163	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	82244,20023,80833 9,92954,01049	1 44580,02794 53,92297	1 75793,58487 44,34585	9,91510,52817,7817 5,24365,8281	10,16010,83043 16,20059	19:48
32	82234,27069,79784 9,93204,51040	1 44526,10497 53,89578	1 75749,23902 44,31812	9,91505,28451,9536 5,24561,4571	10,15994,62984 16,19846	19:12
31	82224,33865,28744 9,93454,98007	1 44472,20919 53,86860	1 75704,92090 44,29043	9,91500,03890,4965 5,24757,1335	10,15978,43138 16,19633	18:36
30	82214,40410,30737 9,93705,41945	1 44418,34059 53,84146	1 75660,63047 44,26276	9,91494,79133,3630 5,24952,8570	10,15962,23505 16,19421	18: 0
29	82204,46704,88792 9,93955,82859	1 44364,49913 53,81433	1 75616,36771 44,23511	9,91489,54180,5060 5,25148,6281	10,15946,04084 16,19208	17:24
28	82194,52749,05933 9,94206,20743	1 44310,68480 53,78723	1 75572,13260 44,20748	9,91484,29031,8779 5,25344,4462	10,15929,84876 16,18997	16:48
27	82184,58542,85190 9,94456,55600	1 44256,89757 53,76015	1 75527,92512 44,17989	9,91479,03687,4317 5,25540,3120	10,15913,65879 16,18785	16:12
26	82174,64086,29590 9,94706,87426	1 44203,13742 53,73310	1 75483,74523 44,15230	9,91473,78147,1197 5,25736,2250	10,15897,47094 16,18573	15:36
25	82164,69379,42164 9,94957,16224	1 44149,40432 53,70606	1 75439,59293 44,12476	9,91468,52410,8947 5,25932,1856	10,15881,28521 16,18363	15: 0
24	82154,74422,25940 9,95207,41990	1 44095,69826 53,67906	1 75395,46817 44,09722	9,91463,26478,7091 5,26128,1935	10,15865,10158 16,18151	14:24
23	82144,79214,83950 9,95457,64724	1 44042,01920 53,65208	1 75351,37095 44,06972	9,91458,00350,5156 5,26324,2490	10,15848,92007 16,17940	13:48
22	82134,83757,19226 9,95707,84426	1 43988,36712 53,62512	1 75307,30123 44,04223	9,91452,74026,2666 5,26520,3520	10,15832,74067 16,17730	13:12
21	82124,88049,34800 9,95958,01096	1 43934,74200 53,59818	1 75263,25900 44,01477	9,91447,47505,9146 5,26716,5026	10,15816,56337 16,17520	12:36
20	82114,92091,33704 9,96208,14731	1 43881,14382 53,57127	1 75219,24423 43,98734	9,91442,20789,4120 5,26912,7007	10,15800,38817 16,17310	12: 0
19	82104,95883,18973 9,96458,25331	1 43827,57255 53,54438	1 75175,25689 43,95992	9,91436,93876,7113 5,27108,9464	10,15784,21507 16,17100	11:24
18	82094,99424,93642 9,96708,32897	1 43774,02817 53,51751	1 75131,29697 43,93254	9,91431,66767,7649 5,27305,2399	10,15768,04407 16,16891	10:48
17	82085,02716,60745 9,96958,37426	1 43720,51066 53,49067	1 75087,36443 43,90516	9,91426,39462,5250 5,27501,5809	10,15751,87516 16,16681	10:12
16	82075,05758,23319 9,97208,38918	1 43667,01999 53,46386	1 75043,45927 43,87783	9,91421,11960,9441 5,27697,9698	10,15735,70835 16,16472	9:36
15	82065,08549,84401 9,97458,37373	1 43613,55613 53,43706	1 74999,58144 43,85050	9,91415,84262,9743 5,27894,4062	10,15719,54363 16,16264	9: 0
14	82055,11091,47028 9,97708,32789	1 43560,11907 53,41028	1 74955,73094 43,82321	9,91410,56368,5681 5,28090,8905	10,15703,38099 16,16055	8:24
13	82045,13383,14239 9,97958,25165	1 43506,70879 53,38354	1 74911,90773 43,79593	9,91405,28277,6776 5,28287,4225	10,15687,22044 16,15848	7:48
12	82035,15424,89074 9,98208,14503	1 43453,32525 53,35682	1 74868,11180 43,76868	9,91399,99990,2551 5,28484,0024	10,15671,06196 16,15639	7:12
11	82025,17216,74571 9,98458,00799	1 43399,96843 53,33011	1 74824,34312 43,74146	9,91394,71506,2527 5,28680,6302	10,15654,90557 16,15431	6:36
10	82015,18758,73772 9,98707,84054	1 43346,63832 53,30343	1 74780,60166 43,71425	9,91389,42825,6225 5,28877,3057	10,15638,75126 16,15224	6: 0
9	82005,20050,89718 9,98957,64266	1 43293,33489 53,27678	1 74736,88741 43,68707	9,91384,13948,3168 5,29074,0293	10,15622,59902 16,15017	5:24
8	81995,21093,25452 9,99207,41435	1 43240,05811 53,25015	1 74693,20034 43,65991	9,91378,84874,2875 5,29270,8007	10,15606,44885 16,14810	4:48
7	81985,21885,84017 9,99457,15562	1 43186,80796 53,22354	1 74649,54043 43,63277	9,91373,55603,4868 5,29467,6201	10,15590,30075 16,14603	4:12
6	81975,22428,68455 9,99706,86643	1 43133,58442 53,19695	1 74605,90766 43,60566	9,91368,26135,8667 5,29664,4875	10,15574,15472 16,14396	3:36
5	81965,22721,81812 9,99956,54678	1 43080,38747 53,17039	1 74562,30200 43,57858	9,91362,96471,3792 5,29861,4029	10,15558,01076 16,14191	3: 0
4	81955,22765,27134 10,00206,19669	1 43027,21708 53,14385	1 74518,72342 43,55151	9,91357,66609,9763 5,30058,3665	10,15541,86885 16,13984	2:24
3	81945,22559,07465 10,00455,81611	1 42974,07323 53,11734	1 74475,17191 43,52446	9,91352,36551,6098 5,30255,3780	10,15525,72901 16,13779	1:48
2	81935,22103,25854 10,00705,40508	1 42920,95589 53,09084	1 74431,64745 43,49744	9,91347,06296,2318 5,30452,4377	10,15509,59122 16,13573	1:12
1	81925,21397,85346 10,00954,96354	1 42867,86505 53,06438	1 74388,15001 43,47045	9,91341,75843,7941 5,30649,5455	10,15493,45549 16,13368	0:36
0	81915,20442,88992 10,01204,49153	1 42814,80067 53,03792	1 74344,67956 43,44347	9,91336,45194,2486 5,30846,7016	10,15477,32181 16,13163	0: 0

GRAD. 55.

35. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	57357,64363,51046 14,29602,65678	70020,75382 26,01366	1 22077,45888 14,92268	9,75859,13013,5410 10,82316,4009	9,84522,67819 16,13163	0: 0
1	57371,93966,16724 14,29427,89187	70046,76748 26,02002	1 22092,38156 14,93005	9,75869,95329,9419 10,81914,4806	9,84538,80982 16,12959	0:36
2	57386,23394,05911 14,29253,08339	70072,78750 26,02638	1 22107,31161 14,93742	9,75880,77244,4225 10,81512,7604	9,84554,93941 16,12754	1:12
3	57400,52647,14250 14,29078,23140	70098,81388 26,03275	1 22122,24903 14,94479	9,75891,58757,1829 10,81111,2403	9,84571,06695 16,12549	1:48
4	57414,81725,37390 14,28903,33586	70124,84663 26,03913	1 22137,19382 14,95218	9,75902,39868,4232 10,80709,9201	9,84587,19244 16,12346	2:24
5	57429,10628,70976 14,28728,39680	70150,88576 26,04550	1 22152,14600 14,95956	9,75913,20578,3433 10,80308,7994	9,84603,31590 16,12142	3: 0
6	57443,39357,10656 14,28553,41421	70176,93126 26,05189	1 22167,10556 14,96695	9,75924,00887,1427 10,79907,8784	9,84619,43732 16,11939	3:36
7	57457,67910,52077 14,28378,38812	70202,98315 26,05827	1 22182,07251 14,97434	9,75934,80795,0211 10,79507,1567	9,84635,55671 16,11735	4:12
8	57471,96288,90889 14,28203,31850	70229,04142 26,06465	1 22197,04685 14,98173	9,75945,60302,1778 10,79106,6341	9,84651,67406 16,11532	4:48
9	57486,24492,22739 14,28028,20540	70255,10607 26,07105	1 22212,02858 14,98913	9,75956,39408,8119 10,78706,3105	9,84667,78938 16,11330	5:24
10	57500,52520,43279 14,27853,04877	70281,17712 26,07745	1 22227,01771 14,99653	9,75967,18115,1224 10,78306,1857	9,84683,90268 16,11127	6: 0
11	57514,80373,48156 14,27677,84867	70307,25457 26,08385	1 22242,01424 15,00394	9,75977,96421,3081 10,77906,2596	9,84700,01395 16,10925	6:36
12	57529,08051,33023 14,27502,60506	70333,33842 26,09025	1 22257,01818 15,01134	9,75988,74327,5677 10,77506,5319	9,84716,12320 16,10723	7:12
13	57543,35553,93529 14,27327,31798	70359,42867 26,09666	1 22272,02952 15,01876	9,75999,51834,0996 10,77107,0026	9,84732,23043 16,10521	7:48
14	57557,62881,25327 14,27151,98742	70385,52533 26,10308	1 22287,04828 15,02617	9,76010,28941,1022 10,76707,6713	9,84748,33564 16,10319	8:24
15	57571,90033,24069 14,26976,61338	70411,62841 26,10949	1 22302,07445 15,03359	9,76021,05648,7735 10,76308,5381	9,84764,43883 16,10119	9: 0
16	57586,17009,85407 14,26801,19587	70437,73790 26,11591	1 22317,10804 15,04102	9,76031,81957,3116 10,75909,6026	9,84780,54002 16,09917	9:36
17	57600,43811,04994 14,26625,73491	70463,85381 26,12233	1 22332,14906 15,04844	9,76042,57866,9142 10,75510,8647	9,84796,63919 16,09717	10:12
18	57614,70436,78485 14,26450,23048	70489,97614 26,12877	1 22347,19750 15,05588	9,76053,33377,7789 10,75112,3243	9,84812,73636 16,09516	10:48
19	57628,96887,01533 14,26274,68260	70516,10491 26,13519	1 22362,25338 15,06330	9,76064,08490,1032 10,74713,9811	9,84828,83152 16,09316	11:24
20	57643,23161,69793 14,26099,09128	70542,24010 26,14163	1 22377,31668 15,07075	9,76074,83204,0843 10,74315,8351	9,84844,92468 16,09116	12: 0
21	57657,49260,78921 14,25923,45652	70568,38173 26,14808	1 22392,38743 15,07819	9,76085,57519,9194 10,73917,8859	9,84861,01584 16,08916	12:36
22	57671,75184,24573 14,25747,77831	70594,52981 26,15451	1 22407,46562 15,08563	9,76096,31437,8053 10,73520,1336	9,84877,10500 16,08716	13:12
23	57686,00932,02404 14,25572,05668	70620,68432 26,16097	1 22422,55125 15,09308	9,76107,04957,9389 10,73122,5778	9,84893,19216 16,08517	13:48
24	57700,26504,08072 14,25396,29162	70646,84529 26,16742	1 22437,64433 15,10053	9,76117,78080,5167 10,72725,2184	9,84909,27733 16,08319	14:24
25	57714,51900,37234 14,25220,48314	70673,01271 26,17387	1 22452,74486 15,10799	9,76128,50805,7351 10,72328,0554	9,84925,36052 16,08119	15: 0
26	57728,77120,85548 14,25044,63125	70699,18658 26,18033	1 22467,85285 15,11546	9,76139,23133,7905 10,71931,0883	9,84941,44171 16,07921	15:36
27	57743,02165,48673 14,24868,73595	70725,36691 26,18680	1 22482,96831 15,12291	9,76149,95064,8788 10,71534,3171	9,84957,52092 16,07722	16:12
28	57757,27034,22268 14,24692,79724	70751,55371 26,19327	1 22498,09122 15,13038	9,76160,66599,1959 10,71137,7419	9,84973,59814 16,07525	16:48
29	57771,51727,01992 14,24516,81513	70777,74698 26,19973	1 22513,22160 15,13785	9,76171,37736,9378 10,70741,3620	9,84989,67339 16,07327	17:24
30	57785,76243,83505 14,24340,78964	70803,94671 26,20622	1 22528,35945 15,14533	9,76182,08478,2998 10,70345,1776	9,85005,74666 16,07129	18: 0
31	57800,00584,62469 14,24164,72075	70830,15293 26,21269	1 22543,50478 15,15280	9,76192,78823,4774 10,69949,1884	9,85021,81795 16,06931	18:36
32	57814,24749,34544 14,23988,60849	70856,36562 26,21918	1 22558,65758 15,16029	9,76203,48772,6658 10,69553,3944	9,85037,88726 16,06735	19:12
33	57828,48737,95393 14,23812,45284	70882,58480 26,22567	1 22573,81787 15,16778	9,76214,18326,0602 10,69157,7952	9,85053,95461 16,06538	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	81915,20442,88992 10,01204,49153	1 42814,80067 53,03792	1 74344,67956 43,44347	9,91336,45194,2486 5,30846,7016	10,15477,32181 16,13163	60: 0
99	81905,19238,39839 10,01453,98901	1 42761,76275 53,01150	1 74301,23609 43,41652	9,91331,14347,5470 5,31043,9057	10,15461,19018 16,12959	59:24
98	81895,17784,40938 10,01703,45598	1 42708,75125 52,98510	1 74257,81957 43,38959	9,91325,83303,6413 5,31241,1582	10,15445,06059 16,12754	58:48
97	81885,16080,95340 10,01952,89245	1 42655,76615 52,95873	1 74214,42998 43,36268	9,91320,52062,4831 5,31438,4589	10,15428,93305 16,12549	58:12
96	81875,14128,06095 10,02202,29840	1 42602,80742 52,93236	1 74171,06730 43,33580	9,91315,20624,0242 5,31635,8079	10,15412,80756 16,12346	57:36
95	81865,11925,76255 10,02451,67380	1 42549,87506 52,90604	1 74127,73150 43,30893	9,91309,88988,2163 5,31833,2052	10,15396,68410 16,12142	57: 0
94	81855,09474,08875 10,02701,01868	1 42496,96902 52,87973	1 74084,42257 43,28210	9,91304,57155,0111 5,32030,6509	10,15380,56268 16,11939	56:24
93	81845,06773,07007 10,02950,33302	1 42444,08929 52,85344	1 74041,14047 43,25529	9,91299,25124,3602 5,32228,1450	10,15364,44329 16,11735	55:48
92	81835,03822,73705 10,03199,61680	1 42391,23585 52,82717	1 73997,88518 43,22849	9,91293,92896,2152 5,32425,6874	10,15348,32594 16,11532	55:12
91	81825,00623,12025 10,03448,87002	1 42338,40868 52,80094	1 73954,65669 43,20172	9,91288,60470,5278 5,32623,2783	10,15332,21062 16,11330	54:36
90	81814,97174,25023 10,03698,09267	1 42285,60774 52,77471	1 73911,45497 43,17497	9,91283,27847,2495 5,32820,9177	10,15316,09732 16,11127	54: 0
89	81804,93476,15756 10,03947,28475	1 42232,83303 52,74853	1 73868,28000 43,14824	9,91277,95026,3318 5,33018,6056	10,15299,98605 16,10925	53:24
88	81794,89528,87281 10,04196,44626	1 42180,08450 52,72234	1 73825,13176 43,12155	9,91272,62007,7262 5,33216,3420	10,15283,87680 16,10723	52:48
87	81784,85332,42655 10,04445,57716	1 42127,36216 52,69620	1 73782,01021 43,09486	9,91267,28791,3842 5,33414,1270	10,15267,76957 16,10521	52:12
86	81774,80886,84939 10,04694,67748	1 42074,66596 52,67007	1 73738,91535 43,06820	9,91261,95377,2572 5,33611,9605	10,15251,66436 16,10319	51:36
85	81764,76192,17191 10,04943,74718	1 42021,99589 52,64397	1 73695,84715 43,04157	9,91256,61765,2967 5,33809,8428	10,15235,56117 16,10119	51: 0
84	81754,71248,42473 10,05192,78628	1 41969,35192 52,61788	1 73652,80558 43,01496	9,91251,27955,4539 5,34007,7735	10,15219,45998 16,09917	50:24
83	81744,66055,63845 10,05441,79475	1 41916,73404 52,59183	1 73609,79062 42,98836	9,91245,93947,6804 5,34205,7531	10,15203,36081 16,09717	49:48
82	81734,60613,84370 10,05690,77260	1 41864,14221 52,56579	1 73566,80226 42,96180	9,91240,59741,9273 5,34403,7813	10,15187,26364 16,09516	49:12
81	81724,54923,07110 10,05939,71981	1 41811,57642 52,53977	1 73523,84046 42,93525	9,91235,25338,1460 5,34601,8583	10,15171,16848 16,09316	48:36
80	81714,48983,35129 10,06188,63639	1 41759,03665 52,51378	1 73480,90521 42,90873	9,91229,90736,2877 5,34799,9840	10,15155,07532 16,09116	48: 0
79	81704,42794,71490 10,06437,52230	1 41706,52287 52,48781	1 73437,99648 42,88223	9,91224,55936,3037 5,34998,1586	10,15138,98416 16,08916	47:24
78	81694,36357,19260 10,06686,37757	1 41654,03506 52,46187	1 73395,11425 42,85574	9,91219,20938,1451 5,35196,3819	10,15122,89500 16,08716	46:48
77	81684,29670,81503 10,06935,20216	1 41601,57319 52,43594	1 73352,25851 42,82929	9,91213,85741,7632 5,35394,6542	10,15106,80784 16,08517	46:12
76	81674,22735,61287 10,07183,99608	1 41549,13725 52,41004	1 73309,42922 42,80286	9,91208,50347,1090 5,35592,9753	10,15090,72267 16,08319	45:36
75	81664,15551,61679 10,07432,75933	1 41496,72721 52,38416	1 73266,62636 42,77644	9,91203,14754,1337 5,35791,3453	10,15074,63948 16,08119	45: 0
74	81654,08118,85746 10,07681,49188	1 41444,34305 52,35830	1 73223,84992 42,75005	9,91197,78962,7884 5,35989,7644	10,15058,55829 16,07921	44:24
73	81644,00437,36558 10,07930,19374	1 41391,98475 52,33246	1 73181,09987 42,72368	9,91192,42973,0240 5,36188,2323	10,15042,47908 16,07722	43:48
72	81633,92507,17184 10,08178,86490	1 41339,65229 52,30666	1 73138,37619 42,69734	9,91187,06784,7917 5,36386,7493	10,15026,40186 16,07525	43:12
71	81623,84328,30694 10,08427,50534	1 41287,34563 52,28086	1 73095,67885 42,67101	9,91181,70398,0424 5,36585,3154	10,15010,32661 16,07327	42:36
70	81613,75900,80160 10,08676,11506	1 41235,06477 52,25509	1 73053,00784 42,64472	9,91176,33812,7270 5,36783,9305	10,14994,25334 16,07129	42: 0
69	81603,67224,68654 10,08924,69407	1 41182,80968 52,22935	1 73010,36312 42,61843	9,91170,97028,7965 5,36982,5947	10,14978,18205 16,06931	41:24
68	81593,58299,99247 10,09173,24234	1 41130,58033 52,20363	1 72967,74469 42,59217	9,91165,60046,2018 5,37181,3080	10,14962,11274 16,06735	40:48
67	81583,49126,75013 10,09421,75986	1 41078,37670 52,17792	1 72925,15252 42,56594	9,91160,22864,8938 5,37380,0706	10,14946,04539 16,06538	40:12

GRAD. 54.

35. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	57828,48737,95393	70882,58480	1 22573,81787	9,76214,18326,0602	9,85053,95461	19:48
	14,23812,45284	26,22567	15,16778	10,69157,7952	16,06538	
34	57842,72550,40677	70908,81047	1 22588,98565	9,76224,87483,8554	9,85070,01999	20:24
	14,23636,25382	26,23215	15,17526	10,68762,3907	16,06341	
35	57856,96186,66059	70935,04262	1 22604,16091	9,76235,56246,2461	9,85086,08340	21: 0
	14,23460,01143	26,23866	15,18275	10,68367,1808	16,06145	
36	57871,19646,67202	70961,28128	1 22619,34366	9,76246,24613,4269	9,85102,14485	21:36
	14,23283,72569	26,24515	15,19026	10,67972,1653	16,05949	
37	57885,42930,39771	70987,52643	1 22634,53392	9,76256,92585,5922	9,85118,20434	22:12
	14,23107,39659	26,25166	15,19775	10,67577,3440	16,05753	
38	57899,66037,79430	71013,77809	1 22649,73167	9,76267,60162,9362	9,85134,26187	22:48
	14,22931,02414	26,25817	15,20526	10,67182,7168	16,05557	
39	57913,88968,81844	71040,03626	1 22664,93693	9,76278,27345,6530	9,85150,31744	23:24
	14,22754,60835	26,26468	15,21276	10,66788,2835	16,05362	
40	57928,11723,42679	71066,30094	1 22680,14969	9,76288,94133,9365	9,85166,37106	24: 0
	14,22578,14921	26,27119	15,22028	10,66394,0440	16,05167	
41	57942,34301,57600	71092,57213	1 22695,36997	9,76299,60527,9805	9,85182,42273	24:36
	14,22401,64673	26,27772	15,22780	10,65999,9978	16,04972	
42	57956,56703,22273	71118,84985	1 22710,59777	9,76310,26527,9783	9,85198,47245	25:12
	14,22225,10094	26,28424	15,23531	10,65606,1453	16,04777	
43	57970,78928,32367	71145,13409	1 22725,83308	9,76320,92134,1236	9,85214,52022	25:48
	14,22048,51182	26,29077	15,24283	10,65212,4858	16,04583	
44	57985,00976,83549	71171,42486	1 22741,07591	9,76331,57346,6094	9,85230,56605	26:24
	14,21871,87938	26,29730	15,25037	10,64819,0195	16,04389	
45	57999,22848,71487	71197,72216	1 22756,32628	9,76342,22165,6289	9,85246,60994	27: 0
	14,21695,20362	26,30384	15,25789	10,64425,7461	16,04195	
46	58013,44543,91849	71224,02600	1 22771,58417	9,76352,86591,3750	9,85262,65189	27:36
	14,21518,48457	26,31037	15,26542	10,64032,6653	16,04001	
47	58027,66062,40306	71250,33637	1 22786,84959	9,76363,50624,0403	9,85278,69190	28:12
	14,21341,72220	26,31693	15,27297	10,63639,7772	16,03808	
48	58041,87404,12526	71276,65330	1 22802,12256	9,76374,14263,8175	9,85294,72998	28:48
	14,21164,91654	26,32347	15,28051	10,63247,0814	16,03614	
49	58056,08569,04180	71302,97677	1 22817,40307	9,76384,77510,8989	9,85310,76612	29:24
	14,20988,06760	26,33002	15,28805	10,62854,5779	16,03422	
50	58070,29557,10940	71329,30679	1 22832,69112	9,76395,40365,4768	9,85326,80034	30: 0
	14,20811,17536	26,33658	15,29560	10,62462,2664	16,03229	
51	58084,50368,28476	71355,64337	1 22847,98672	9,76406,02827,7432	9,85342,83263	30:36
	14,20634,23984	26,34314	15,30315	10,62070,1469	16,03036	
52	58098,71002,52460	71381,98651	1 22863,28987	9,76416,64897,8901	9,85358,86299	31:12
	14,20457,26105	26,34971	15,31071	10,61678,2191	16,02844	
53	58112,91459,78565	71408,33622	1 22878,60058	9,76427,26576,1092	9,85374,89143	31:48
	14,20280,23899	26,35627	15,31827	10,61286,4828	16,02652	
54	58127,11740,02464	71434,69249	1 22893,91885	9,76437,87862,5920	9,85390,91795	32:24
	14,20103,17367	26,36285	15,32584	10,60894,9380	16,02461	
55	58141,31843,19831	71461,05534	1 22909,24469	9,76448,48757,5300	9,85406,94256	33: 0
	14,19926,06508	26,36942	15,33340	10,60503,5844	16,02269	
56	58155,51769,26339	71487,42476	1 22924,57809	9,76459,09261,1144	9,85422,96525	33:36
	14,19748,91324	26,37601	15,34098	10,60112,4220	16,02077	
57	58169,71518,17663	71513,80077	1 22939,91907	9,76469,69373,5364	9,85438,98602	34:12
	14,19571,71816	26,38259	15,34855	10,59721,4503	16,01887	
58	58183,91089,89479	71540,18336	1 22955,26762	9,76480,29094,9867	9,85455,00489	34:48
	14,19394,47984	26,38917	15,35613	10,59330,6695	16,01696	
59	58198,10484,37463	71566,57253	1 22970,62375	9,76490,88425,6562	9,85471,02185	35:24
	14,19217,19826	26,39578	15,36371	10,58940,0794	16,01505	
60	58212,29701,57289	71592,96831	1 22985,98746	9,76501,47365,7356	9,85487,03690	36: 0
	14,19039,87348	26,40237	15,37130	10,58549,6795	16,01315	
61	58226,48741,44637	71619,37068	1 23001,35876	9,76512,05915,4151	9,85503,05005	36:36
	14,18862,50544	26,40897	15,37889	10,58159,4699	16,01125	
62	58240,67603,95181	71645,77965	1 23016,73765	9,76522,64074,8850	9,85519,06130	37:12
	14,18685,09421	26,41557	15,38648	10,57769,4505	16,00935	
63	58254,86289,04602	71672,19522	1 23032,12413	9,76533,21844,3355	9,85535,07065	37:48
	14,18507,63974	26,42219	15,39408	10,57379,6211	16,00746	
64	58269,04796,68576	71698,61741	1 23047,51821	9,76543,79223,9566	9,85551,07811	38:24
	14,18330,14207	26,42880	15,40169	10,56989,9813	16,00556	
65	58283,23126,82783	71725,04621	1 23062,91990	9,76554,36213,9379	9,85567,08367	39: 0
	14,18152,60120	26,43542	15,40929	10,56600,5312	16,00367	
66	58297,41279,42903	71751,48163	1 23078,32919	9,76564,92814,4691	9,85583,08734	39:36
	14,17975,01713	26,44204	15,41690	10,56211,2706	16,00179	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	81583,49126,75013 10,09421,75986	1 41078,37670 52,17792	1 72925,15252 42,56594	9,91160,22864,8938 5,37380,0706	10,14946,04539 16,06538	40:12
66	81573,39704,99027 10,09670,24663	1 41026,19878 52,15224	1 72882,58658 42,53972	9,91154,85484,8232 5,37578,8822	10,14929,98001 16,06341	39:36
65	81563,30034,74364 10,09918,70266	1 40974,04654 52,12659	1 72840,04686 42,51354	9,91149,47905,9410 5,37777,7432	10,14913,91660 16,06145	39: 0
64	81553,20116,04098 10,10167,12791	1 40921,91995 52,10095	1 72797,53332 42,48736	9,91144,10128,1978 5,37976,6534	10,14897,85515 16,05949	38:24
63	81543,09948,91307 10,10415,52240	1 40869,81900 52,07534	1 72755,04596 42,46121	9,91138,72151,5444 5,38175,6129	10,14881,79566 16,05753	37:48
62	81532,99533,39067 10,10663,88610	1 40817,74366 52,04974	1 72712,58475 42,43509	9,91133,33975,9315 5,38374,6216	10,14865,73813 16,05557	37:12
61	81522,88869,50457 10,10912,21903	1 40765,69392 52,02418	1 72670,14966 42,40898	9,91127,95601,3099 5,38573,6798	10,14849,68256 16,05362	36:36
60	81512,77957,28554 10,11160,52115	1 40713,66974 51,99863	1 72627,74068 42,38290	9,91122,57027,6301 5,38772,7873	10,14833,62894 16,05167	36: 0
59	81502,66796,76439 10,11408,79247	1 40661,67111 51,97310	1 72585,35778 42,35684	9,91117,18254,8428 5,38971,9442	10,14817,57727 16,04972	35:24
58	81492,55387,97192 10,11657,03299	1 40609,69801 51,94760	1 72543,00094 42,33080	9,91111,79282,8986 5,39171,1506	10,14801,52755 16,04777	34:48
57	81482,43730,93893 10,11905,24268	1 40557,75041 51,92212	1 72500,67014 42,30478	9,91106,40111,7480 5,39370,4064	10,14785,47978 16,04583	34:12
56	81472,31825,69625 10,12153,42156	1 40505,82829 51,89666	1 72458,36536 42,27879	9,91101,00741,3416 5,39569,7117	10,14769,43395 16,04389	33:36
55	81462,19672,27469 10,12401,56960	1 40453,93163 51,87123	1 72416,08657 42,25281	9,91095,61171,6299 5,39769,0666	10,14753,39006 16,04195	33: 0
54	81452,07270,70509 10,12649,68680	1 40402,06040 51,84581	1 72373,83376 42,22686	9,91090,21402,5633 5,39968,4710	10,14737,34811 16,04001	32:24
53	81441,94621,01829 10,12897,77315	1 40350,21459 51,82041	1 72331,60690 42,20093	9,91084,81434,0923 5,40167,9250	10,14721,30810 16,03808	31:48
52	81431,81723,24514 10,13145,82866	1 40298,39418 51,79504	1 72289,40597 42,17502	9,91079,41266,1673 5,40367,4286	10,14705,27002 16,03614	31:12
51	81421,68577,41648 10,13393,85329	1 40246,59914 51,76969	1 72247,23095 42,14913	9,91074,00898,7387 5,40566,9819	10,14689,23388 16,03422	30:36
50	81411,55183,56319 10,13641,84706	1 40194,82945 51,74437	1 72205,08182 42,12327	9,91068,60331,7568 5,40766,5849	10,14673,19966 16,03229	30: 0
49	81401,41541,71613 10,13889,80995	1 40143,08508 51,71905	1 72162,95855 42,09742	9,91063,19565,1719 5,40966,2375	10,14657,16737 16,03036	29:24
48	81391,27651,90618 10,14137,74196	1 40091,36603 51,69377	1 72120,86113 42,07160	9,91057,78598,9344 5,41165,9400	10,14641,13701 16,02844	28:48
47	81381,13514,16422 10,14385,64307	1 40039,67226 51,66851	1 72078,78953 42,04580	9,91052,37432,9944 5,41365,6922	10,14625,10857 16,02652	28:12
46	81370,99128,52115 10,14633,51328	1 39988,00375 51,64327	1 72036,74373 42,02002	9,91046,96067,3022 5,41565,4942	10,14609,08205 16,02461	27:36
45	81360,84495,00787 10,14881,35259	1 39936,36048 51,61804	1 71994,72371 41,99426	9,91041,54501,8080 5,41765,3460	10,14593,05744 16,02269	27: 0
44	81350,69613,65528 10,15129,16098	1 39884,74244 51,59285	1 71952,72945 41,96852	9,91036,12736,4620 5,41965,2477	10,14577,03475 16,02077	26:24
43	81340,54484,49430 10,15376,93845	1 39833,14959 51,56767	1 71910,76093 41,94281	9,91030,70771,2143 5,42165,1993	10,14561,01398 16,01887	25:48
42	81330,39107,55585 10,15624,68499	1 39781,58192 51,54252	1 71868,81812 41,91711	9,91025,28606,0150 5,42365,2009	10,14544,99511 16,01696	25:12
41	81320,23482,87086 10,15872,40058	1 39730,03940 51,51738	1 71826,90101 41,89144	9,91019,86240,8141 5,42565,2524	10,14528,97815 16,01505	24:36
40	81310,07610,47028 10,16120,08525	1 39678,52202 51,49227	1 71785,00957 41,86579	9,91014,43675,5617 5,42765,3538	10,14512,96310 16,01315	24: 0
39	81299,91490,38503 10,16367,73894	1 39627,02975 51,46718	1 71743,14378 41,84015	9,91009,00910,2079 5,42965,5054	10,14496,94995 16,01125	23:24
38	81289,75122,64609 10,16615,36169	1 39575,56257 51,44211	1 71701,30363 41,81455	9,91003,57944,7025 5,43165,7069	10,14480,93870 16,00935	22:48
37	81279,58507,28440 10,16862,95346	1 39524,12046 51,41706	1 71659,48908 41,78896	9,90998,14778,9956 5,43365,9586	10,14464,92935 16,00746	22:12
36	81269,41644,33094 10,17110,51426	1 39472,70340 51,39204	1 71617,70012 41,76340	9,90992,71413,0370 5,43566,2603	10,14448,92189 16,00556	21:36
35	81259,24533,81668 10,17358,04408	1 39421,31136 51,36703	1 71575,93672 41,73785	9,90987,27846,7767 5,43766,6122	10,14432,91633 16,00367	21: 0
34	81249,07175,77260 10,17605,54290	1 39369,94433 51,34205	1 71534,19887 41,71232	9,90981,84080,1645 5,43967,0144	10,14416,91266 16,00179	20:24

GRAD. 54.

35. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	58311,59254,44616	71777,92367	1 23093,74609	9,76575,49025,7397	9,85599,08913	40:12
	14,17797,38986	26,44866	15,42451	10,55822,1992	15,99989	
68	58325,77051,83602	71804,37233	1 23109,17060	9,76586,04847,9389	9,85615,08902	40:48
	14,17619,71940	26,45530	15,43213	10,55433,3170	15,99802	
69	58339,94671,55542	71830,82763	1 23124,60273	9,76596,60281,2559	9,85631,08704	41:24
	14,17442,00576	26,46193	15,43975	10,55044,6238	15,99613	
70	58354,12113,56118	71857,28956	1 23140,04248	9,76607,15325,8797	9,85647,08317	42: 0
	14,17264,24894	26,46856	15,44738	10,54656,1193	15,99425	
71	58368,29377,81012	71883,75812	1 23155,48986	9,76617,69981,9990	9,85663,07742	42:36
	14,17086,44895	26,47521	15,45500	10,54267,8035	15,99238	
72	58382,46464,25907	71910,23333	1 23170,94486	9,76628,24249,8025	9,85679,06980	43:12
	14,16908,60580	26,48186	15,46264	10,53879,6762	15,99050	
73	58396,63372,86487	71936,71519	1 23186,40750	9,76638,78129,4787	9,85695,06030	43:48
	14,16730,71947	26,48851	15,47027	10,53491,7371	15,98863	
74	58410,80103,58434	71963,20370	1 23201,87777	9,76649,31621,2158	9,85711,04893	44:24
	14,16552,79000	26,49516	15,47791	10,53103,9864	15,98676	
75	58424,96656,37434	71989,69886	1 23217,35568	9,76659,84725,2022	9,85727,03569	45: 0
	14,16374,81738	26,50182	15,48556	10,52716,4235	15,98489	
76	58439,13031,19172	72016,20068	1 23232,84124	9,76670,37441,6257	9,85743,02058	45:36
	14,16196,80161	26,50848	15,49321	10,52329,0485	15,98303	
77	58453,29227,99333	72042,70916	1 23248,33445	9,76680,89770,6742	9,85759,00361	46:12
	14,16018,74269	26,51515	15,50085	10,51941,8613	15,98116	
78	58467,45246,73602	72069,22431	1 23263,83530	9,76691,41712,5355	9,85774,98477	46:48
	14,15840,64066	26,52183	15,50851	10,51554,8614	15,97931	
79	58481,61087,37668	72095,74614	1 23279,34381	9,76701,93267,3969	9,85790,96408	47:24
	14,15662,49547	26,52849	15,51617	10,51168,0491	15,97745	
80	58495,76749,87215	72122,27463	1 23294,85998	9,76712,44435,4460	9,85806,94153	48: 0
	14,15484,30719	26,53518	15,52384	10,50781,4238	15,97559	
81	58509,92234,17934	72148,80981	1 23310,38382	9,76722,95216,8698	9,85822,91712	48:36
	14,15306,07576	26,54186	15,53150	10,50394,9856	15,97374	
82	58524,07540,25510	72175,35167	1 23325,91532	9,76733,45611,8554	9,85838,89086	49:12
	14,15127,80124	26,54855	15,53917	10,50008,7344	15,97189	
83	58538,22668,05634	72201,90022	1 23341,45449	9,76743,95620,5898	9,85854,86275	49:48
	14,14949,48360	26,55524	15,54684	10,49622,6698	15,97005	
84	58552,37617,53994	72228,45546	1 23357,00133	9,76754,45243,2596	9,85870,83280	50:24
	14,14771,12287	26,56194	15,55453	10,49236,7918	15,96819	
85	58566,52388,66281	72255,01740	1 23372,55586	9,76764,94480,0514	9,85886,80099	51: 0
	14,14592,71903	26,56863	15,56220	10,48851,1002	15,96636	
86	58580,66981,38184	72281,58603	1 23388,11806	9,76775,43331,1516	9,85902,76735	51:36
	14,14414,27211	26,57534	15,56990	10,48465,5949	15,96451	
87	58594,81395,65395	72308,16137	1 23403,68796	9,76785,91796,7465	9,85918,73186	52:12
	14,14235,78209	26,58205	15,57758	10,48080,2756	15,96267	
88	58608,95631,43604	72334,74342	1 23419,26554	9,76796,39877,0221	9,85934,69453	52:48
	14,14057,24901	26,58877	15,58527	10,47695,1424	15,96084	
89	58623,09688,68505	72361,33219	1 23434,85081	9,76806,87572,1645	9,85950,65537	53:24
	14,13878,67284	26,59547	15,59298	10,47310,1948	15,95900	
90	58637,23567,35789	72387,92766	1 23450,44379	9,76817,34882,3593	9,85966,61437	54: 0
	14,13700,05361	26,60220	15,60067	10,46925,4328	15,95718	
91	58651,37267,41150	72414,52986	1 23466,04446	9,76827,81807,7921	9,85982,57155	54:36
	14,13521,39131	26,60893	15,60838	10,46540,8564	15,95534	
92	58665,50788,80281	72441,13879	1 23481,65284	9,76838,28348,6485	9,85998,52689	55:12
	14,13342,68596	26,61565	15,61609	10,46156,4653	15,95352	
93	58679,64131,48877	72467,75444	1 23497,26893	9,76848,74505,1138	9,86014,48041	55:48
	14,13163,93754	26,62239	15,62381	10,45772,2592	15,95169	
94	58693,77295,42631	72494,37683	1 23512,89274	9,76859,20277,3730	9,86030,43210	56:24
	14,12985,14609	26,62913	15,63152	10,45388,2382	15,94987	
95	58707,90280,57240	72521,00596	1 23528,52426	9,76869,65665,6112	9,86046,38197	57: 0
	14,12806,31160	26,63587	15,63924	10,45004,4020	15,94805	
96	58722,03086,88400	72547,64183	1 23544,16350	9,76880,10670,0132	9,86062,33002	57:36
	14,12627,43405	26,64261	15,64696	10,44620,7505	15,94623	
97	58736,15714,31805	72574,28444	1 23559,81046	9,76890,55290,7637	9,86078,27625	58:12
	14,12448,51349	26,64936	15,65470	10,44237,2834	15,94442	
98	58750,28162,83154	72600,93380	1 23575,46516	9,76900,99528,0471	9,86094,22067	58:48
	14,12269,54990	26,65612	15,66243	10,43854,0009	15,94261	
99	58764,40432,38144	72627,58992	1 23591,12759	9,76911,43382,0480	9,86110,16328	59:24
	14,12090,54329	26,66288	15,67016	10,43470,9023	15,94079	
100	58778,52522,92473	72654,25280	1 23606,79775	9,76921,86852,9503	9,86126,10407	60: 0
	14,11911,49366	26,66964	15,67790	10,43087,9880	15,93899	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	81238,89570,22970 10,17853,01073	1 39318,60228 51,31708	1 71492,48655 41,68682	9,90976,40113,1501 5,44167,4666	10,14400,91087 15,99989	19:48
32	81228,71717,21897 10,18100,44755	1 39267,28520 51,29215	1 71450,79973 41,66134	9,90970,95945,6835 5,44367,9691	10,14384,91098 15,99802	19:12
31	81218,53616,77142 10,18347,85336	1 39215,99305 51,26722	1 71409,13839 41,63588	9,90965,51577,7144 5,44568,5220	10,14368,91296 15,99613	18:36
30	81208,35268,91806 10,18595,22814	1 39164,72583 51,24233	1 71367,50251 41,61044	9,90960,07009,1924 5,44769,1250	10,14352,91683 15,99425	18: 0
29	81198,16673,68992 10,18842,57191	1 39113,48350 51,21744	1 71325,89207 41,58502	9,90954,62240,0674 5,44969,7785	10,14336,92258 15,99238	17:24
28	81187,97831,11801 10,19089,88463	1 39062,26606 51,19260	1 71284,30705 41,55963	9,90949,17270,2889 5,45170,4823	10,14320,93020 15,99050	16:48
27	81177,78741,23338 10,19337,16632	1 39011,07346 51,16776	1 71242,74742 41,53424	9,90943,72099,8066 5,45371,2365	10,14304,93970 15,98863	16:12
26	81167,59404,06706 10,19584,41694	1 38959,90570 51,14294	1 71201,21318 41,50889	9,90938,26728,5701 5,45572,0411	10,14288,95107 15,98676	15:36
25	81157,39819,65012 10,19831,63651	1 38908,76276 51,11815	1 71159,70429 41,48356	9,90932,81156,5290 5,45772,8962	10,14272,96431 15,98489	15: 0
24	81147,19988,01361 10,20078,82502	1 38857,64461 51,09338	1 71118,22073 41,45824	9,90927,35383,6328 5,45973,8018	10,14256,97942 15,98303	14:24
23	81136,99909,18859 10,20325,98245	1 38806,55123 51,06864	1 71076,76249 41,43295	9,90921,89409,8310 5,46174,7578	10,14240,99639 15,98116	13:48
22	81126,79583,20614 10,20573,10881	1 38755,48259 51,04390	1 71035,32954 41,40768	9,90916,43235,0732 5,46375,7645	10,14225,01523 15,97931	13:12
21	81116,59010,09733 10,20820,20406	1 38704,43869 51,01919	1 70993,92186 41,38243	9,90910,96859,3087 5,46576,8218	10,14209,03592 15,97745	12:36
20	81106,38189,89327 10,21067,26824	1 38653,41950 50,99451	1 70952,53943 41,35719	9,90905,50282,4869 5,46777,9295	10,14193,05847 15,97559	12: 0
19	81096,17122,62503 10,21314,30130	1 38602,42499 50,96984	1 70911,18224 41,33199	9,90900,03504,5574 5,46979,0881	10,14177,08288 15,97374	11:24
18	81085,95808,32373 10,21561,30325	1 38551,45515 50,94520	1 70869,85025 41,30680	9,90894,56525,4693 5,47180,2972	10,14161,10914 15,97189	10:48
17	81075,74247,02048 10,21808,27408	1 38500,50995 50,92057	1 70828,54345 41,28163	9,90889,09345,1721 5,47381,5570	10,14145,13725 15,97005	10:12
16	81065,52438,74640 10,22055,21379	1 38449,58938 50,89597	1 70787,26182 41,25648	9,90883,61963,6151 5,47582,8677	10,14129,16720 15,96819	9:36
15	81055,30383,53261 10,22302,12237	1 38398,69341 50,87139	1 70746,00534 41,23136	9,90878,14380,7474 5,47784,2290	10,14113,19901 15,96636	9: 0
14	81045,08081,41024 10,22548,99980	1 38347,82202 50,84682	1 70704,77398 41,20626	9,90872,66596,5184 5,47985,6413	10,14097,23265 15,96451	8:24
13	81034,85532,41044 10,22795,84609	1 38296,97520 50,82229	1 70663,56772 41,18116	9,90867,18610,8771 5,48187,1042	10,14081,26814 15,96267	7:48
12	81024,62736,56435 10,23042,66121	1 38246,15291 50,79777	1 70622,38656 41,15611	9,90861,70423,7729 5,48388,6182	10,14065,30547 15,96084	7:12
11	81014,39693,90314 10,23289,44518	1 38195,35514 50,77326	1 70581,23045 41,13106	9,90856,22035,1547 5,48590,1829	10,14049,34463 15,95900	6:36
10	81004,16404,45796 10,23536,19797	1 38144,58188 50,74880	1 70540,09939 41,10603	9,90850,73444,9718 5,48791,7986	10,14033,38563 15,95718	6: 0
9	80993,92868,25999 10,23782,91959	1 38093,83308 50,72433	1 70498,99336 41,08104	9,90845,24653,1732 5,48993,4653	10,14017,42845 15,95534	5:24
8	80983,69085,34040 10,24029,61002	1 38043,10875 50,69990	1 70457,91232 41,05605	9,90839,75659,7079 5,49195,1829	10,14001,47311 15,95352	4:48
7	80973,45055,73038 10,24276,26925	1 37992,40885 50,67548	1 70416,85627 41,03109	9,90834,26464,5250 5,49396,9516	10,13985,51959 15,95169	4:12
6	80963,20779,46113 10,24522,89729	1 37941,73337 50,65109	1 70375,82518 41,00615	9,90828,77067,5734 5,49598,7714	10,13969,56790 15,94987	3:36
5	80952,96256,56384 10,24769,49411	1 37891,08228 50,62671	1 70334,81903 40,98123	9,90823,27468,8020 5,49800,6422	10,13953,61803 15,94805	3: 0
4	80942,71487,06973 10,25016,05972	1 37840,45557 50,60236	1 70293,83780 40,95633	9,90817,77668,1598 5,50002,5641	10,13937,66998 15,94623	2:24
3	80932,46471,01001 10,25262,59410	1 37789,85321 50,57802	1 70252,88147 40,93145	9,90812,27665,5957 5,50204,5372	10,13921,72375 15,94442	1:48
2	80922,21208,41591 10,25509,09726	1 37739,27519 50,55372	1 70211,95002 40,90660	9,90806,77461,0585 5,50406,5615	10,13905,77933 15,94261	1:12
1	80911,95699,31865 10,25755,56918	1 37688,72147 50,52942	1 70171,04342 40,88175	9,90801,27054,4970 5,50608,6370	10,13889,83672 15,94079	0:36
0	80901,69943,74947 10,26002,00984	1 37638,19205 50,50516	1 70130,16167 40,85694	9,90795,76445,8600 5,50810,7638	10,13873,89593 15,93899	0: 0

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36. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	58778,52522,92473 14,11911,49366	72654,25280 26,66964	1 23606,79775 15,67790	9,76921,86852,9503 10,43087,9880	9,86126,10407 15,93899	0: 0
1	58792,64434,41839 14,11732,40103	72680,92244 26,67641	1 23622,47565 15,68565	9,76932,29940,9383 10,42705,2575	9,86142,04306 15,93718	0:36
2	58806,76166,81942 14,11553,26538	72707,59885 26,68318	1 23638,16130 15,69340	9,76942,72646,1958 10,42322,7108	9,86157,98024 15,93538	1:12
3	58820,87720,08480 14,11374,08675	72734,28203 26,68995	1 23653,85470 15,70115	9,76953,14968,9066 10,41940,3475	9,86173,91562 15,93358	1:48
4	58834,99094,17155 14,11194,86512	72760,97198 26,69673	1 23669,55585 15,70890	9,76963,56909,2541 10,41558,1678	9,86189,84920 15,93178	2:24
5	58849,10289,03667 14,11015,60050	72787,66871 26,70352	1 23685,26475 15,71667	9,76973,98467,4219 10,41176,1713	9,86205,78098 15,92998	3: 0
6	58863,21304,63717 14,10836,29290	72814,37223 26,71031	1 23700,98142 15,72443	9,76984,39643,5932 10,40794,3579	9,86221,71096 15,92819	3:36
7	58877,32140,93007 14,10656,94232	72841,08254 26,71710	1 23716,70585 15,73219	9,76994,80437,9511 10,40412,7275	9,86237,63915 15,92640	4:12
8	58891,42797,87239 14,10477,54877	72867,79964 26,72389	1 23732,43804 15,73997	9,77005,20850,6786 10,40031,2800	9,86253,56555 15,92461	4:48
9	58905,53275,42116 14,10298,11226	72894,52353 26,73070	1 23748,17801 15,74774	9,77015,60881,9586 10,39650,0149	9,86269,49016 15,92282	5:24
10	58919,63573,53342 14,10118,63279	72921,25423 26,73750	1 23763,92575 15,75553	9,77026,00531,9735 10,39268,9325	9,86285,41298 15,92104	6: 0
11	58933,73692,16621 14,09939,11035	72947,99173 26,74431	1 23779,68128 15,76330	9,77036,39800,9060 10,38888,0324	9,86301,33402 15,91925	6:36
12	58947,83631,27656 14,09759,54499	72974,73604 26,75112	1 23795,44458 15,77110	9,77046,78688,9384 10,38507,3145	9,86317,25327 15,91748	7:12
13	58961,93390,82155 14,09579,93665	73001,48716 26,75794	1 23811,21568 15,77888	9,77057,17196,2529 10,38126,7786	9,86333,17075 15,91570	7:48
14	58976,02970,75820 14,09400,28540	73028,24510 26,76476	1 23826,99456 15,78668	9,77067,55323,0315 10,37746,4246	9,86349,08645 15,91392	8:24
15	58990,12371,04360 14,09220,59121	73055,00986 26,77159	1 23842,78124 15,79448	9,77077,93069,4561 10,37366,2523	9,86365,00037 15,91215	9: 0
16	59004,21591,63481 14,09040,85409	73081,78145 26,77842	1 23858,57572 15,80228	9,77088,30435,7084 10,36986,2616	9,86380,91252 15,91038	9:36
17	59018,30632,48890 14,08861,07405	73108,55987 26,78525	1 23874,37800 15,81010	9,77098,67421,9700 10,36606,4523	9,86396,82290 15,90862	10:12
18	59032,39493,56295 14,08681,25108	73135,34512 26,79210	1 23890,18810 15,81790	9,77109,04028,4223 10,36226,8243	9,86412,73152 15,90684	10:48
19	59046,48174,81403 14,08501,38522	73162,13722 26,79893	1 23906,00600 15,82571	9,77119,40255,2466 10,35847,3774	9,86428,63836 15,90509	11:24
20	59060,56676,19925 14,08321,47645	73188,93615 26,80578	1 23921,83171 15,83354	9,77129,76102,6240 10,35468,1114	9,86444,54345 15,90332	12: 0
21	59074,64997,67570 14,08141,52477	73215,74193 26,81264	1 23937,66525 15,84136	9,77140,11570,7354 10,35089,0263	9,86460,44677 15,90156	12:36
22	59088,73139,20047 14,07961,53020	73242,55457 26,81949	1 23953,50661 15,84918	9,77150,46659,7617 10,34710,1219	9,86476,34833 15,89981	13:12
23	59102,81100,73067 14,07781,49275	73269,37406 26,82635	1 23969,35579 15,85702	9,77160,81369,8836 10,34331,3979	9,86492,24814 15,89805	13:48
24	59116,88882,22342 14,07601,41240	73296,20041 26,83322	1 23985,21281 15,86485	9,77171,15701,2815 10,33952,8543	9,86508,14619 15,89630	14:24
25	59130,96483,63582 14,07421,28919	73323,03363 26,84008	1 24001,07766 15,87269	9,77181,49654,1358 10,33574,4908	9,86524,04249 15,89455	15: 0
26	59145,03904,92501 14,07241,12309	73349,87371 26,84696	1 24016,95035 15,88053	9,77191,83228,6266 10,33196,3076	9,86539,93704 15,89281	15:36
27	59159,11146,04810 14,07060,91414	73376,72067 26,85383	1 24032,83088 15,88838	9,77202,16424,9342 10,32818,3040	9,86555,82985 15,89106	16:12
28	59173,18206,96224 14,06880,66232	73403,57450 26,86072	1 24048,71926 15,89623	9,77212,49243,2382 10,32440,4803	9,86571,72091 15,88932	16:48
29	59187,25087,62456 14,06700,36764	73430,43522 26,86760	1 24064,61549 15,90408	9,77222,81683,7185 10,32062,8363	9,86587,61023 15,88757	17:24
30	59201,31787,99220 14,06520,03011	73457,30282 26,87449	1 24080,51957 15,91195	9,77233,13746,5548 10,31685,3715	9,86603,49780 15,88584	18: 0
31	59215,38308,02231 14,06339,64974	73484,17731 26,88139	1 24096,43152 15,91980	9,77243,45431,9263 10,31308,0862	9,86619,38364 15,88411	18:36
32	59229,44647,67205 14,06159,22653	73511,05870 26,88828	1 24112,35132 15,92768	9,77253,76740,0125 10,30930,9799	9,86635,26775 15,88237	19:12
33	59243,50806,89858 14,05978,76049	73537,94698 26,89519	1 24128,27900 15,93554	9,77264,07670,9924 10,30554,0527	9,86651,15012 15,88064	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	80901,69943,74947 10,26002,00984	1 37638,19205 50,50516	1 70130,16167 40,85694	9,90795,76445,8600 5,50810,7638	10,13873,89593 15,93899	60: 0
99	80891,43941,73963 10,26248,41926	1 37587,68689 50,48090	1 70089,30473 40,83213	9,90790,25635,0962 5,51012,9417	10,13857,95694 15,93718	59:24
98	80881,17693,32037 10,26494,79741	1 37537,20599 50,45667	1 70048,47260 40,80736	9,90784,74622,1545 5,51215,1711	10,13842,01976 15,93538	58:48
97	80870,91198,52296 10,26741,14429	1 37486,74932 50,43246	1 70007,66524 40,78261	9,90779,23406,9834 5,51417,4517	10,13826,08438 15,93358	58:12
96	80860,64457,37867 10,26987,45991	1 37436,31686 50,40828	1 69966,88263 40,75787	9,90773,71989,5317 5,51619,7838	10,13810,15080 15,93178	57:36
95	80850,37469,91876 10,27233,74423	1 37385,90858 50,38410	1 69926,12476 40,73315	9,90768,20369,7479 5,51822,1672	10,13794,21902 15,92998	57: 0
94	80840,10236,17453 10,27479,99726	1 37335,52448 50,35996	1 69885,39161 40,70845	9,90762,68547,5807 5,52024,6021	10,13778,28904 15,92819	56:24
93	80829,82756,17727 10,27726,21900	1 37285,16452 50,33583	1 69844,68316 40,68378	9,90757,16522,9786 5,52227,0884	10,13762,36085 15,92640	55:48
92	80819,55029,95827 10,27972,40942	1 37234,82869 50,31172	1 69803,99938 40,65912	9,90751,64295,8902 5,52429,6263	10,13746,43445 15,92461	55:12
91	80809,27057,54885 10,28218,56854	1 37184,51697 50,28764	1 69763,34026 40,63449	9,90746,11866,2639 5,52632,2156	10,13730,50984 15,92282	54:36
90	80798,98838,98031 10,28464,69634	1 37134,22933 50,26357	1 69722,70577 40,60987	9,90740,59234,0483 5,52834,8567	10,13714,58702 15,92104	54: 0
89	80788,70374,28397 10,28710,79279	1 37083,96576 50,23952	1 69682,09590 40,58528	9,90735,06399,1916 5,53037,5491	10,13698,66598 15,91925	53:24
88	80778,41663,49118 10,28956,85793	1 37033,72624 50,21550	1 69641,51062 40,56070	9,90729,53361,6425 5,53240,2933	10,13682,74673 15,91748	52:48
87	80768,12706,63325 10,29202,89171	1 36983,51074 50,19150	1 69600,94992 40,53615	9,90724,00121,3492 5,53443,0892	10,13666,82925 15,91570	52:12
86	80757,83503,74154 10,29448,89414	1 36933,31924 50,16750	1 69560,41377 40,51161	9,90718,46678,2600 5,53645,9367	10,13650,91355 15,91392	51:36
85	80747,54054,84740 10,29694,86522	1 36883,15174 50,14355	1 69519,90216 40,48709	9,90712,93032,3233 5,53848,8359	10,13634,99963 15,91215	51: 0
84	80737,24359,98218 10,29940,80492	1 36833,00819 50,11959	1 69479,41507 40,46260	9,90707,39183,4874 5,54051,7870	10,13619,08748 15,91038	50:24
83	80726,94419,17726 10,30186,71326	1 36782,88860 50,09568	1 69438,95247 40,43813	9,90701,85131,7004 5,54254,7897	10,13603,17710 15,90862	49:48
82	80716,64232,46400 10,30432,59021	1 36732,79292 50,07177	1 69398,51434 40,41367	9,90696,30876,9107 5,54457,8444	10,13587,26848 15,90684	49:12
81	80706,33799,87379 10,30678,43577	1 36682,72115 50,04788	1 69358,10067 40,38924	9,90690,76419,0663 5,54660,9508	10,13571,36164 15,90509	48:36
80	80696,03121,43802 10,30924,24994	1 36632,67327 50,02402	1 69317,71143 40,36482	9,90685,21758,1155 5,54864,1092	10,13555,45655 15,90332	48: 0
79	80685,72197,18808 10,31170,03271	1 36582,64925 50,00018	1 69277,34661 40,34043	9,90679,66894,0063 5,55067,3195	10,13539,55323 15,90156	47:24
78	80675,41027,15537 10,31415,78405	1 36532,64907 49,97635	1 69237,00618 40,31605	9,90674,11826,6868 5,55270,5818	10,13523,65167 15,89981	46:48
77	80665,09611,37132 10,31661,50400	1 36482,67272 49,95255	1 69196,69013 40,29169	9,90668,56556,1050 5,55473,8959	10,13507,75186 15,89805	46:12
76	80654,77949,86732 10,31907,19249	1 36432,72017 49,92877	1 69156,39844 40,26736	9,90663,01082,2091 5,55677,2621	10,13491,85381 15,89630	45:36
75	80644,46042,67483 10,32152,84958	1 36382,79140 49,90500	1 69116,13108 40,24305	9,90657,45404,9470 5,55880,6805	10,13475,95751 15,89455	45: 0
74	80634,13889,82525 10,32398,47520	1 36332,88640 49,88126	1 69075,88803 40,21875	9,90651,89524,2665 5,56084,1508	10,13460,06296 15,89281	44:24
73	80623,81491,35005 10,32644,06939	1 36283,00514 49,85753	1 69035,66928 40,19447	9,90646,33440,1157 5,56287,6732	10,13444,17015 15,89106	43:48
72	80613,48847,28066 10,32889,63212	1 36233,14761 49,83383	1 68995,47481 40,17021	9,90640,77152,4425 5,56491,2479	10,13428,27909 15,88932	43:12
71	80603,15957,64854 10,33135,16338	1 36183,31378 49,81015	1 68955,30460 40,14598	9,90635,20661,1946 5,56694,8747	10,13412,38977 15,88757	42:36
70	80592,82822,48516 10,33380,66318	1 36133,50363 49,78648	1 68915,15862 40,12177	9,90629,63966,3199 5,56898,5536	10,13396,50220 15,88584	42: 0
69	80582,49441,82198 10,33626,13149	1 36083,71715 49,76284	1 68875,03685 40,09756	9,90624,07067,7663 5,57102,2850	10,13380,61636 15,88411	41:24
68	80572,15815,69049 10,33871,56832	1 36033,95431 49,73922	1 68834,93929 40,07339	9,90618,49965,4813 5,57306,0684	10,13364,73225 15,88237	40:48
67	80561,81944,12217 10,34116,97365	1 35984,21509 49,71561	1 68794,86590 40,04923	9,90612,92659,4129 5,57509,9043	10,13348,84988 15,88064	40:12

GRAD. 53.

36. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	59243,50806,89858 14,05978,76049	73537,94698 26,89519	1 24128,27900 15,93554	9,77264,07670,9924 10,30554,0527	9,86651,15012 15,88064	19:48
34	59257,56785,65907 14,05798,25161	73564,84217 26,90210	1 24144,21454 15,94342	9,77274,38225,0451 10,30177,3043	9,86667,03076 15,87891	20:24
35	59271,62583,91068 14,05617,69991	73591,74427 26,90900	1 24160,15796 15,95130	9,77284,68402,3494 10,29800,7346	9,86682,90967 15,87718	21: 0
36	59285,68201,61059 14,05437,10540	73618,65327 26,91593	1 24176,10926 15,95917	9,77294,98203,0840 10,29424,3434	9,86698,78685 15,87546	21:36
37	59299,73638,71599 14,05256,46808	73645,56920 26,92284	1 24192,06843 15,96707	9,77305,27627,4274 10,29048,1307	9,86714,66231 15,87374	22:12
38	59313,78895,18407 14,05075,78794	73672,49204 26,92977	1 24208,03550 15,97496	9,77315,56675,5581 10,28672,0961	9,86730,53605 15,87202	22:48
39	59327,83970,97201 14,04895,06500	73699,42181 26,93669	1 24224,01046 15,98285	9,77325,85347,6542 10,28296,2397	9,86746,40807 15,87030	23:24
40	59341,88866,03701 14,04714,29928	73726,35850 26,94363	1 24239,99331 15,99075	9,77336,13643,8939 10,27920,5611	9,86762,27837 15,86859	24: 0
41	59355,93580,33629 14,04533,49076	73753,30213 26,95057	1 24255,98406 15,99866	9,77346,41564,4550 10,27545,0605	9,86778,14696 15,86688	24:36
42	59369,98113,82705 14,04352,63945	73780,25270 26,95751	1 24271,98272 16,00656	9,77356,69109,5155 10,27169,7375	9,86794,01384 15,86516	25:12
43	59384,02466,46650 14,04171,74537	73807,21021 26,96445	1 24287,98928 16,01447	9,77366,96279,2530 10,26794,5919	9,86809,87900 15,86346	25:48
44	59398,06638,21187 14,03990,80852	73834,17466 26,97141	1 24304,00375 16,02239	9,77377,23073,8449 10,26419,6236	9,86825,74246 15,86175	26:24
45	59412,10629,02039 14,03809,82888	73861,14607 26,97836	1 24320,02614 16,03030	9,77387,49493,4685 10,26044,8327	9,86841,60421 15,86005	27: 0
46	59426,14438,84927 14,03628,80650	73888,12443 26,98532	1 24336,05644 16,03823	9,77397,75538,3012 10,25670,2187	9,86857,46426 15,85835	27:36
47	59440,18067,65577 14,03447,74136	73915,10975 26,99228	1 24352,09467 16,04616	9,77408,01208,5199 10,25295,7817	9,86873,32261 15,85665	28:12
48	59454,21515,39713 14,03266,63346	73942,10203 26,99925	1 24368,14083 16,05408	9,77418,26504,3016 10,24921,5214	9,86889,17926 15,85495	28:48
49	59468,24782,03059 14,03085,48282	73969,10128 27,00622	1 24384,19491 16,06203	9,77428,51425,8230 10,24547,4376	9,86905,03421 15,85326	29:24
50	59482,27867,51341 14,02904,28944	73996,10750 27,01320	1 24400,25694 16,06996	9,77438,75973,2606 10,24173,5305	9,86920,88747 15,85156	30: 0
51	59496,30771,80285 14,02723,05332	74023,12070 27,02018	1 24416,32690 16,07790	9,77449,00146,7911 10,23799,7995	9,86936,73903 15,84988	30:36
52	59510,33494,85617 14,02541,77448	74050,14088 27,02717	1 24432,40480 16,08585	9,77459,23946,5906 10,23426,2448	9,86952,58891 15,84819	31:12
53	59524,36036,63065 14,02360,45290	74077,16805 27,03415	1 24448,49065 16,09381	9,77469,47372,8354 10,23052,8660	9,86968,43710 15,84651	31:48
54	59538,38397,08355 14,02179,08861	74104,20220 27,04115	1 24464,58446 16,10176	9,77479,70425,7014 10,22679,6631	9,86984,28361 15,84482	32:24
55	59552,40576,17216 14,01997,68162	74131,24335 27,04815	1 24480,68622 16,10971	9,77489,93105,3645 10,22306,6360	9,87000,12843 15,84314	33: 0
56	59566,42573,85378 14,01816,23190	74158,29150 27,05515	1 24496,79593 16,11769	9,77500,15412,0005 10,21933,7845	9,87015,97157 15,84147	33:36
57	59580,44390,08568 14,01634,73950	74185,34665 27,06215	1 24512,91362 16,12564	9,77510,37345,7850 10,21561,1082	9,87031,81304 15,83978	34:12
58	59594,46024,82518 14,01453,20439	74212,40880 27,06917	1 24529,03926 16,13363	9,77520,58906,8932 10,21188,6075	9,87047,65282 15,83812	34:48
59	59608,47478,02957 14,01271,62659	74239,47797 27,07618	1 24545,17289 16,14159	9,77530,80095,5007 10,20816,2817	9,87063,49094 15,83644	35:24
60	59622,48749,65616 14,01090,00611	74266,55415 27,08321	1 24561,31448 16,14958	9,77541,00911,7824 10,20444,1310	9,87079,32738 15,83478	36: 0
61	59636,49839,66227 14,00908,34294	74293,63736 27,09023	1 24577,46406 16,15756	9,77551,21355,9134 10,20072,1550	9,87095,16216 15,83311	36:36
62	59650,50748,00521 14,00726,63711	74320,72759 27,09725	1 24593,62162 16,16555	9,77561,41428,0684 10,19700,3539	9,87110,99527 15,83144	37:12
63	59664,51474,64232 14,00544,88861	74347,82484 27,10429	1 24609,78717 16,17354	9,77571,61128,4223 10,19328,7273	9,87126,82671 15,82978	37:48
64	59678,52019,53093 14,00363,09743	74374,92913 27,11133	1 24625,96071 16,18154	9,77581,80457,1496 10,18957,2750	9,87142,65649 15,82812	38:24
65	59692,52382,62836 14,00181,26362	74402,04046 27,11837	1 24642,14225 16,18954	9,77591,99414,4246 10,18585,9971	9,87158,48461 15,82647	39: 0
66	59706,52563,89198 13,99999,38713	74429,15883 27,12542	1 24658,33179 16,19754	9,77602,18000,4217 10,18214,8932	9,87174,31108 15,82481	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	80561,81944,12217 10,34116,97365	1 35984,21509 49,71561	1 68794,86590 40,04923	9,90612,92659,4129 5,57509,9043	10,13348,84988 15,88064	40:12
66	80551,47827,14852 10,34362,34749	1 35934,49948 49,69202	1 68754,81667 40,02509	9,90607,35149,5086 5,57713,7924	10,13332,96924 15,87891	39:36
65	80541,13464,80103 10,34607,68981	1 35884,80746 49,66846	1 68714,79158 40,00097	9,90601,77435,7162 5,57917,7330	10,13317,09033 15,87718	39: 0
64	80530,78857,11122 10,34853,00062	1 35835,13900 49,64492	1 68674,79061 39,97688	9,90596,19517,9832 5,58121,7259	10,13301,21315 15,87546	38:24
63	80520,44004,11060 10,35098,27991	1 35785,49408 49,62139	1 68634,81373 39,95279	9,90590,61396,2573 5,58325,7713	10,13285,33769 15,87374	37:48
62	80510,08905,83069 10,35343,52767	1 35735,87269 49,59789	1 68594,86094 39,92874	9,90585,03070,4860 5,58529,8691	10,13269,46395 15,87202	37:12
61	80499,73562,30302 10,35588,74388	1 35686,27480 49,57440	1 68554,93220 39,90469	9,90579,44540,6169 5,58734,0195	10,13253,59193 15,87030	36:36
60	80489,37973,55914 10,35833,92855	1 35636,70040 49,55093	1 68515,02751 39,88068	9,90573,85806,5974 5,58938,2225	10,13237,72163 15,86859	36: 0
59	80479,02139,63059 10,36079,08167	1 35587,14947 49,52749	1 68475,14683 39,85667	9,90568,26868,3749 5,59142,4778	10,13221,85304 15,86688	35:24
58	80468,66060,54892 10,36324,20323	1 35537,62198 49,50406	1 68435,29016 39,83269	9,90562,67725,8971 5,59346,7859	10,13205,98616 15,86516	34:48
57	80458,29736,34569 10,36569,29322	1 35488,11792 49,48065	1 68395,45747 39,80872	9,90557,08379,1112 5,59551,1467	10,13190,12100 15,86346	34:12
56	80447,93167,05247 10,36814,35163	1 35438,63727 49,45727	1 68355,64875 39,78479	9,90551,48827,9645 5,59755,5600	10,13174,25754 15,86175	33:36
55	80437,56352,70084 10,37059,37845	1 35389,18000 49,43390	1 68315,86396 39,76086	9,90545,89072,4045 5,59960,0260	10,13158,39579 15,86005	33: 0
54	80427,19293,32239 10,37304,37370	1 35339,74610 49,41055	1 68276,10310 39,73696	9,90540,29112,3785 5,60164,5449	10,13142,53574 15,85835	32:24
53	80416,81988,94869 10,37549,33734	1 35290,33555 49,38722	1 68236,36614 39,71307	9,90534,68947,8336 5,60369,1164	10,13126,67739 15,85665	31:48
52	80406,44439,61135 10,37794,26938	1 35240,94833 49,36391	1 68196,65307 39,68920	9,90529,08578,7172 5,60573,7408	10,13110,82074 15,85495	31:12
51	80396,06645,34197 10,38039,16980	1 35191,58442 49,34063	1 68156,96387 39,66536	9,90523,48004,9764 5,60778,4179	10,13094,96579 15,85326	30:36
50	80385,68606,17217 10,38284,03860	1 35142,24379 49,31735	1 68117,29851 39,64153	9,90517,87226,5585 5,60983,1481	10,13079,11253 15,85156	30: 0
49	80375,30322,13357 10,38528,87577	1 35092,92644 49,29410	1 68077,65698 39,61773	9,90512,26243,4104 5,61187,9309	10,13063,26097 15,84988	29:24
48	80364,91793,25780 10,38773,68131	1 35043,63234 49,27087	1 68038,03925 39,59393	9,90506,65055,4795 5,61392,7669	10,13047,41109 15,84819	28:48
47	80354,53019,57649 10,39018,45521	1 34994,36147 49,24766	1 67998,44532 39,57017	9,90501,03662,7126 5,61597,6557	10,13031,56290 15,84651	28:12
46	80344,14001,12128 10,39263,19746	1 34945,11381 49,22446	1 67958,87515 39,54642	9,90495,42065,0569 5,61802,5976	10,13015,71639 15,84482	27:36
45	80333,74737,92382 10,39507,90804	1 34895,88935 49,20130	1 67919,32873 39,52268	9,90489,80262,4593 5,62007,5924	10,12999,87157 15,84314	27: 0
44	80323,35230,01578 10,39752,58697	1 34846,68805 49,17814	1 67879,80605 39,49897	9,90484,18254,8669 5,62212,6404	10,12984,02843 15,84147	26:24
43	80312,95477,42881 10,39997,23421	1 34797,50991 49,15500	1 67840,30708 39,47529	9,90478,56042,2265 5,62417,7414	10,12968,18696 15,83978	25:48
42	80302,55480,19460 10,40241,84979	1 34748,35491 49,13189	1 67800,83179 39,45160	9,90472,93624,4851 5,62622,8955	10,12952,34718 15,83812	25:12
41	80292,15238,34481 10,40486,43366	1 34699,22302 49,10879	1 67761,38019 39,42796	9,90467,31001,5896 5,62828,1029	10,12936,50906 15,83644	24:36
40	80281,74751,91115 10,40730,98586	1 34650,11423 49,08572	1 67721,95223 39,40431	9,90461,68173,4867 5,63033,3634	10,12920,67262 15,83478	24: 0
39	80271,34020,92529 10,40975,50634	1 34601,02851 49,06266	1 67682,54792 39,38070	9,90456,05140,1233 5,63238,6771	10,12904,83784 15,83311	23:24
38	80260,93045,41895 10,41219,99511	1 34551,96585 49,03962	1 67643,16722 39,35711	9,90450,41901,4462 5,63444,0442	10,12889,00473 15,83144	22:48
37	80250,51825,42384 10,41464,45217	1 34502,92623 49,01660	1 67603,81011 39,33352	9,90444,78457,4020 5,63649,4644	10,12873,17329 15,82978	22:12
36	80240,10360,97167 10,41708,87751	1 34453,90963 48,99361	1 67564,47659 39,30997	9,90439,14807,9376 5,63854,9381	10,12857,34351 15,82812	21:36
35	80229,68652,09416 10,41953,27110	1 34404,91602 48,97062	1 67525,16662 39,28643	9,90433,50952,9995 5,64060,4651	10,12841,51539 15,82647	21: 0
34	80219,26698,82306 10,42197,63297	1 34355,94540 48,94766	1 67485,88019 39,26290	9,90427,86892,5344 5,64266,0454	10,12825,68892 15,82481	20:24

GRAD. 53.

36. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	59720,52563,27911	74456,28425	1 24674,52933	9,77612,36215,3149	9,87190,13589	40:12
	13,99817,46801	27,13246	16,20555	10,17843,9633	15,82315	
68	59734,52380,74712	74483,41671	1 24690,73488	9,77622,54059,2782	9,87205,95904	40:48
	13,99635,50625	27,13953	16,21357	10,17473,2073	15,82151	
69	59748,52016,25337	74510,55624	1 24706,94845	9,77632,71532,4855	9,87221,78055	41:24
	13,99453,50184	27,14658	16,22158	10,17102,6249	15,81986	
70	59762,51469,75521	74537,70282	1 24723,17003	9,77642,88635,1104	9,87237,60041	42: 0
	13,99271,45482	27,15364	16,22960	10,16732,2161	15,81821	
71	59776,50741,21003	74564,85646	1 24739,39963	9,77653,05367,3265	9,87253,41862	42:36
	13,99089,36516	27,16072	16,23762	10,16361,9806	15,81657	
72	59790,49830,57519	74592,01718	1 24755,63725	9,77663,21729,3071	9,87269,23519	43:12
	13,98907,23289	27,16779	16,24566	10,15991,9185	15,81492	
73	59804,48737,80808	74619,18497	1 24771,88291	9,77673,37721,2256	9,87285,05011	43:48
	13,98725,05800	27,17486	16,25369	10,15622,0293	15,81329	
74	59818,47462,86608	74646,35983	1 24788,13660	9,77683,53343,2549	9,87300,86340	44:24
	13,98542,84051	27,18195	16,26173	10,15252,3133	15,81165	
75	59832,46005,70659	74673,54178	1 24804,39833	9,77693,68595,5682	9,87316,67505	45: 0
	13,98360,58041	27,18903	16,26977	10,14882,7699	15,81001	
76	59846,44366,28700	74700,73081	1 24820,66810	9,77703,83478,3381	9,87332,48506	45:36
	13,98178,27773	27,19612	16,27781	10,14513,3993	15,80838	
77	59860,42544,56473	74727,92693	1 24836,94591	9,77713,97991,7374	9,87348,29344	46:12
	13,97995,93244	27,20322	16,28586	10,14144,2012	15,80676	
78	59874,40540,49717	74755,13015	1 24853,23177	9,77724,12135,9386	9,87364,10020	46:48
	13,97813,54457	27,21032	16,29392	10,13775,1755	15,80512	
79	59888,38354,04174	74782,34047	1 24869,52569	9,77734,25911,1141	9,87379,90532	47:24
	13,97631,11412	27,21742	16,30198	10,13406,3220	15,80350	
80	59902,35985,15586	74809,55789	1 24885,82767	9,77744,39317,4361	9,87395,70882	48: 0
	13,97448,64110	27,22453	16,31004	10,13037,6406	15,80187	
81	59916,33433,79696	74836,78242	1 24902,13771	9,77754,52355,0767	9,87411,51069	48:36
	13,97266,12551	27,23165	16,31810	10,12669,1312	15,80025	
82	59930,30699,92247	74864,01407	1 24918,45581	9,77764,65024,2079	9,87427,31094	49:12
	13,97083,56735	27,23876	16,32618	10,12300,7936	15,79864	
83	59944,27783,48982	74891,25283	1 24934,78199	9,77774,77325,0015	9,87443,10958	49:48
	13,96900,96664	27,24588	16,33425	10,11932,6277	15,79702	
84	59958,24684,45646	74918,49871	1 24951,11624	9,77784,89257,6292	9,87458,90660	50:24
	13,96718,32338	27,25301	16,34233	10,11564,6333	15,79540	
85	59972,21402,77984	74945,75172	1 24967,45857	9,77795,00822,2625	9,87474,70200	51: 0
	13,96535,63757	27,26013	16,35041	10,11196,8103	15,79379	
86	59986,17938,41741	74973,01185	1 24983,80898	9,77805,12019,0728	9,87490,49579	51:36
	13,96352,90922	27,26728	16,35850	10,10829,1585	15,79218	
87	60000,14291,32663	75000,27913	1 25000,16748	9,77815,22848,2313	9,87506,28797	52:12
	13,96170,13833	27,27441	16,36659	10,10461,6778	15,79057	
88	60014,10461,46496	75027,55354	1 25016,53407	9,77825,33309,9091	9,87522,07854	52:48
	13,95987,32491	27,28156	16,37468	10,10094,3682	15,78897	
89	60028,06448,78987	75054,83510	1 25032,90875	9,77835,43404,2773	9,87537,86751	53:24
	13,95804,46897	27,28870	16,38279	10,09727,2292	15,78737	
90	60042,02253,25884	75082,12380	1 25049,29154	9,77845,53131,5065	9,87553,65488	54: 0
	13,95621,57051	27,29586	16,39089	10,09360,2611	15,78576	
91	60055,97874,82935	75109,41966	1 25065,68243	9,77855,62491,7676	9,87569,44064	54:36
	13,95438,62954	27,30302	16,39900	10,08993,4634	15,78416	
92	60069,93313,45889	75136,72268	1 25082,08143	9,77865,71485,2310	9,87585,22480	55:12
	13,95255,64606	27,31018	16,40711	10,08626,8361	15,78257	
93	60083,88569,10495	75164,03286	1 25098,48854	9,77875,80112,0671	9,87601,00737	55:48
	13,95072,62008	27,31734	16,41523	10,08260,3791	15,78098	
94	60097,83641,72503	75191,35020	1 25114,90377	9,77885,88372,4462	9,87616,78835	56:24
	13,94889,55160	27,32452	16,42335	10,07894,0922	15,77938	
95	60111,78531,27663	75218,67472	1 25131,32712	9,77895,96266,5384	9,87632,56773	57: 0
	13,94706,44064	27,33169	16,43147	10,07527,9753	15,77779	
96	60125,73237,71727	75246,00641	1 25147,75859	9,77906,03794,5137	9,87648,34552	57:36
	13,94523,28717	27,33887	16,43960	10,07162,0282	15,77621	
97	60139,67761,00444	75273,34528	1 25164,19819	9,77916,10956,5419	9,87664,12173	58:12
	13,94340,09125	27,34605	16,44774	10,06796,2508	15,77461	
98	60153,62101,09569	75300,69133	1 25180,64593	9,77926,17752,7927	9,87679,89634	58:48
	13,94156,85283	27,35324	16,45587	10,06430,6429	15,77304	
99	60167,56257,94852	75328,04457	1 25197,10180	9,77936,24183,4356	9,87695,66938	59:24
	13,93973,57196	27,36044	16,46402	10,06065,2045	15,77146	
100	60181,50231,52048	75355,40501	1 25213,56582	9,77946,30248,6401	9,87711,44084	60: 0
	13,93790,24862	27,36763	16,47216	10,05699,9354	15,76987	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	80208,84501,19009 10,42441,96308	1 34306,99774 48,92472	1 67446,61729 39,23940	9,90422,22626,4890 5,64471,6793	10,12809,86411 15,82315	19:48
32	80198,42059,22701 10,42686,26144	1 34258,07302 48,90179	1 67407,37789 39,21592	9,90416,58154,8097 5,64677,3665	10,12794,04096 15,82151	19:12
31	80187,99372,96557 10,42930,52803	1 34209,17123 48,87890	1 67368,16197 39,19245	9,90410,93477,4432 5,64883,1073	10,12778,21945 15,81986	18:36
30	80177,56442,43754 10,43174,76286	1 34160,29233 48,85600	1 67328,96952 39,16901	9,90405,28594,3359 5,65088,9016	10,12762,39959 15,81821	18: 0
29	80167,13267,67468 10,43418,96591	1 34111,43633 48,83314	1 67289,80051 39,14558	9,90399,63505,4343 5,65294,7495	10,12746,58138 15,81657	17:24
28	80156,69848,70877 10,43663,13718	1 34062,60319 48,81030	1 67250,65493 39,12218	9,90393,98210,6848 5,65500,6509	10,12730,76481 15,81492	16:48
27	80146,26185,57159 10,43907,27666	1 34013,79289 48,78746	1 67211,53275 39,09878	9,90388,32710,0339 5,65706,6060	10,12714,94989 15,81329	16:12
26	80135,82278,29493 10,44151,38432	1 33965,00543 48,76466	1 67172,43397 39,07541	9,90382,67003,4279 5,65912,6147	10,12699,13660 15,81165	15:36
25	80125,38126,91061 10,44395,46020	1 33916,24077 48,74187	1 67133,35856 39,05207	9,90377,01090,8132 5,66118,6772	10,12683,32495 15,81001	15: 0
24	80114,93731,45041 10,44639,50425	1 33867,49890 48,71909	1 67094,30649 39,02872	9,90371,34972,1360 5,66324,7933	10,12667,51494 15,80838	14:24
23	80104,49091,94616 10,44883,51648	1 33818,77981 48,69635	1 67055,27777 39,00542	9,90365,68647,3427 5,66530,9633	10,12651,70656 15,80676	13:48
22	80094,04208,42968 10,45127,49689	1 33770,08346 48,67361	1 67016,27235 38,98212	9,90360,02116,3794 5,66737,1870	10,12635,89980 15,80512	13:12
21	80083,59080,93279 10,45371,44546	1 33721,40985 48,65089	1 66977,29023 38,95884	9,90354,35379,1924 5,66943,4645	10,12620,09468 15,80350	12:36
20	80073,13709,48733 10,45615,36217	1 33672,75896 48,62820	1 66938,33139 38,93558	9,90348,68435,7279 5,67149,7960	10,12604,29118 15,80187	12: 0
19	80062,68094,12516 10,45859,24705	1 33624,13076 48,60553	1 66899,39581 38,91235	9,90343,01285,9319 5,67356,1813	10,12588,48931 15,80025	11:24
18	80052,22234,87811 10,46103,10007	1 33575,52523 48,58286	1 66860,48346 38,88912	9,90337,33929,7506 5,67562,6205	10,12572,68906 15,79864	10:48
17	80041,76131,77804 10,46346,92121	1 33526,94237 48,56023	1 66821,59434 38,86592	9,90331,66367,1301 5,67769,1138	10,12556,89042 15,79702	10:12
16	80031,29784,85683 10,46590,71048	1 33478,38214 48,53761	1 66782,72842 38,84274	9,90325,98598,0163 5,67975,6609	10,12541,09340 15,79540	9:36
15	80020,83194,14635 10,46834,46788	1 33429,84453 48,51500	1 66743,88568 38,81957	9,90320,30622,3554 5,68182,2622	10,12525,29800 15,79379	9: 0
14	80010,36359,67847 10,47078,19338	1 33381,32953 48,49242	1 66705,06611 38,79642	9,90314,62440,0932 5,68388,9175	10,12509,50421 15,79218	8:24
13	79999,89281,48509 10,47321,88700	1 33332,83711 48,46986	1 66666,26969 38,77330	9,90308,94051,1757 5,68595,6269	10,12493,71203 15,79057	7:48
12	79989,41959,59809 10,47565,54869	1 33284,36725 48,44731	1 66627,49639 38,75019	9,90303,25455,5488 5,68802,3905	10,12477,92146 15,78897	7:12
11	79978,94394,04940 10,47809,17849	1 33235,91994 48,42479	1 66588,74620 38,72709	9,90297,56653,1583 5,69009,2081	10,12462,13249 15,78737	6:36
10	79968,46584,87091 10,48052,77637	1 33187,49515 48,40228	1 66550,01911 38,70403	9,90291,87643,9502 5,69216,0801	10,12446,34512 15,78576	6: 0
9	79957,98532,09454 10,48296,34232	1 33139,09287 48,37979	1 66511,31508 38,68097	9,90286,18427,8701 5,69423,0062	10,12430,55936 15,78416	5:24
8	79947,50235,75222 10,48539,87634	1 33090,71308 48,35731	1 66472,63411 38,65793	9,90280,49004,8639 5,69629,9867	10,12414,77520 15,78257	4:48
7	79937,01695,87588 10,48783,37842	1 33042,35577 48,33487	1 66433,97618 38,63491	9,90274,79374,8772 5,69837,0213	10,12398,99263 15,78098	4:12
6	79926,52912,49746 10,49026,84854	1 32994,02090 48,31243	1 66395,34127 38,61192	9,90269,09537,8559 5,70044,1104	10,12383,21165 15,77938	3:36
5	79916,03885,64892 10,49270,28672	1 32945,70847 48,29002	1 66356,72935 38,58894	9,90263,39493,7455 5,70251,2538	10,12367,43227 15,77779	3: 0
4	79905,54615,36220 10,49513,69294	1 32897,41845 48,26762	1 66318,14041 38,56597	9,90257,69242,4917 5,70458,4517	10,12351,65448 15,77621	2:24
3	79895,05101,66926 10,49757,06717	1 32849,15083 48,24524	1 66279,57444 38,54303	9,90251,98784,0400 5,70665,7039	10,12335,87827 15,77461	1:48
2	79884,55344,60209 10,50000,40944	1 32800,90559 48,22289	1 66241,03141 38,52010	9,90246,28118,3361 5,70873,0107	10,12320,10366 15,77304	1:12
1	79874,05344,19265 10,50243,71972	1 32752,68270 48,20054	1 66202,51131 38,49720	9,90240,57245,3254 5,71080,3719	10,12304,33062 15,77146	0:36
0	79863,55100,47293 10,50486,99801	1 32704,48216 48,17822	1 66164,01411 38,47430	9,90234,86164,9535 5,71287,7877	10,12288,55916 15,76987	0: 0

GRAD. 53.

37. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	60181,50231,52048	75355,40501	1 25213,56582	9,77946,30248,6401	9,87711,44084	0: 0
	13,93790,24862	27,36763	16,47216	10,05699,9354	15,76987	
1	60195,44021,76910	75382,77264	1 25230,03798	9,77956,35948,5755	9,87727,21071	0:36
	13,93606,88283	27,37484	16,48031	10,05334,8353	15,76831	
2	60209,37628,65193	75410,14748	1 25246,51829	9,77966,41283,4108	9,87742,97902	1:12
	13,93423,47457	27,38205	16,48846	10,04969,9043	15,76672	
3	60223,31052,12650	75437,52953	1 25263,00675	9,77976,46253,3151	9,87758,74574	1:48
	13,93240,02389	27,38925	16,49663	10,04605,1421	15,76516	
4	60237,24292,15039	75464,91878	1 25279,50338	9,77986,50858,4572	9,87774,51090	2:24
	13,93056,53074	27,39647	16,50478	10,04240,5486	15,76358	
5	60251,17348,68113	75492,31525	1 25296,00816	9,77996,55099,0058	9,87790,27448	3: 0
	13,92872,99518	27,40369	16,51296	10,03876,1237	15,76202	
6	60265,10221,67631	75519,71894	1 25312,52112	9,78006,58975,1295	9,87806,03650	3:36
	13,92689,41718	27,41092	16,52112	10,03511,8672	15,76045	
7	60279,02911,09349	75547,12986	1 25329,04224	9,78016,62486,9967	9,87821,79695	4:12
	13,92505,79676	27,41814	16,52931	10,03147,7791	15,75889	
8	60292,95416,89025	75574,54800	1 25345,57155	9,78026,65634,7758	9,87837,55584	4:48
	13,92322,13391	27,42538	16,53748	10,02783,8591	15,75733	
9	60306,87739,02416	75601,97338	1 25362,10903	9,78036,68418,6349	9,87853,31317	5:24
	13,92138,42866	27,43262	16,54566	10,02420,1071	15,75577	
10	60320,79877,45282	75629,40600	1 25378,65469	9,78046,70838,7420	9,87869,06894	6: 0
	13,91954,68101	27,43986	16,55386	10,02056,5230	15,75422	
11	60334,71832,13383	75656,84586	1 25395,20855	9,78056,72895,2650	9,87884,82316	6:36
	13,91770,89094	27,44711	16,56204	10,01693,1066	15,75266	
12	60348,63603,02477	75684,29297	1 25411,77059	9,78066,74588,3716	9,87900,57582	7:12
	13,91587,05848	27,45436	16,57024	10,01329,8579	15,75111	
13	60362,55190,08325	75711,74733	1 25428,34083	9,78076,75918,2295	9,87916,32693	7:48
	13,91403,18363	27,46162	16,57845	10,00966,7765	15,74956	
14	60376,46593,26688	75739,20895	1 25444,91928	9,78086,76885,0060	9,87932,07649	8:24
	13,91219,26641	27,46888	16,58665	10,00603,8626	15,74801	
15	60390,37812,53329	75766,67783	1 25461,50593	9,78096,77488,8686	9,87947,82450	9: 0
	13,91035,30679	27,47615	16,59486	10,00241,1159	15,74647	
16	60404,28847,84008	75794,15398	1 25478,10079	9,78106,77729,9845	9,87963,57097	9:36
	13,90851,30480	27,48341	16,60307	9,99878,5360	15,74492	
17	60418,19699,14488	75821,63739	1 25494,70386	9,78116,77608,5205	9,87979,31589	10:12
	13,90667,26046	27,49069	16,61129	9,99516,1233	15,74339	
18	60432,10366,40534	75849,12808	1 25511,31515	9,78126,77124,6438	9,87995,05928	10:48
	13,90483,17374	27,49797	16,61951	9,99153,8773	15,74184	
19	60446,00849,57908	75876,62605	1 25527,93466	9,78136,76278,5211	9,88010,80112	11:24
	13,90299,04467	27,50526	16,62774	9,98791,7978	15,74031	
20	60459,91148,62375	75904,13131	1 25544,56240	9,78146,75070,3189	9,88026,54143	12: 0
	13,90114,87325	27,51254	16,63598	9,98429,8850	15,73877	
21	60473,81263,49700	75931,64385	1 25561,19838	9,78156,73500,2039	9,88042,28020	12:36
	13,89930,65948	27,51983	16,64420	9,98068,1385	15,73725	
22	60487,71194,15648	75959,16368	1 25577,84258	9,78166,71568,3424	9,88058,01745	13:12
	13,89746,40337	27,52714	16,65245	9,97706,5582	15,73571	
23	60501,60940,55985	75986,69082	1 25594,49503	9,78176,69274,9006	9,88073,75316	13:48
	13,89562,10493	27,53443	16,66069	9,97345,1439	15,73419	
24	60515,50502,66478	76014,22525	1 25611,15572	9,78186,66620,0445	9,88089,48735	14:24
	13,89377,76416	27,54174	16,66894	9,96983,8958	15,73266	
25	60529,39880,42894	76041,76699	1 25627,82466	9,78196,63603,9403	9,88105,22001	15: 0
	13,89193,38107	27,54906	16,67719	9,96622,8133	15,73114	
26	60543,29073,81001	76069,31605	1 25644,50185	9,78206,60226,7536	9,88120,95115	15:36
	13,89008,95566	27,55637	16,68544	9,96261,8966	15,72961	
27	60557,18082,76567	76096,87242	1 25661,18729	9,78216,56488,6502	9,88136,68076	16:12
	13,88824,48794	27,56369	16,69371	9,95901,1454	15,72810	
28	60571,06907,25361	76124,43611	1 25677,88100	9,78226,52389,7956	9,88152,40886	16:48
	13,88639,97792	27,57102	16,70198	9,95540,5597	15,72659	
29	60584,95547,23153	76152,00713	1 25694,58298	9,78236,47930,3553	9,88168,13545	17:24
	13,88455,42558	27,57834	16,71024	9,95180,1391	15,72506	
30	60598,84002,65711	76179,58547	1 25711,29322	9,78246,43110,4944	9,88183,86051	18: 0
	13,88270,83096	27,58568	16,71852	9,94819,8838	15,72356	
31	60612,72273,48807	76207,17115	1 25728,01174	9,78256,37930,3782	9,88199,58407	18:36
	13,88086,19405	27,59302	16,72679	9,94459,7935	15,72205	
32	60626,60359,68212	76234,76417	1 25744,73853	9,78266,32390,1717	9,88215,30612	19:12
	13,87901,51486	27,60037	16,73508	9,94099,8680	15,72054	
33	60640,48261,19698	76262,36454	1 25761,47361	9,78276,26490,0397	9,88231,02666	19:48
	13,87716,79338	27,60771	16,74337	9,93740,1072	15,71903	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	79863,55100,47293 10,50486,99801	1 32704,48216 48,17822	1 66164,01411 38,47430	9,90234,86164,9535 5,71287,7877	10,12288,55916 15,76987	60: 0
99	79853,04613,47492 10,50730,24430	1 32656,30394 48,15591	1 66125,53981 38,45144	9,90229,14877,1658 5,71495,2581	10,12272,78929 15,76831	59:24
98	79842,53883,23062 10,50973,45857	1 32608,14803 48,13363	1 66087,08837 38,42858	9,90223,43381,9077 5,71702,7831	10,12257,02098 15,76672	58:48
97	79832,02909,77205 10,51216,64085	1 32560,01440 48,11136	1 66048,65979 38,40575	9,90217,71679,1246 5,71910,3626	10,12241,25426 15,76516	58:12
96	79821,51693,13120 10,51459,79109	1 32511,90304 48,08912	1 66010,25404 38,38293	9,90211,99768,7620 5,72117,9970	10,12225,48910 15,76358	57:36
95	79811,00233,34011 10,51702,90930	1 32463,81392 48,06688	1 65971,87111 38,36014	9,90206,27650,7650 5,72325,6860	10,12209,72552 15,76202	57: 0
94	79800,48530,43081 10,51945,99548	1 32415,74704 48,04467	1 65933,51097 38,33735	9,90200,55325,0790 5,72533,4298	10,12193,96350 15,76045	56:24
93	79789,96584,43533 10,52189,04962	1 32367,70237 48,02248	1 65895,17362 38,31459	9,90194,82791,6492 5,72741,2283	10,12178,20305 15,75889	55:48
92	79779,44395,38571 10,52432,07170	1 32319,67989 48,00030	1 65856,85903 38,29185	9,90189,10050,4209 5,72949,0816	10,12162,44416 15,75733	55:12
91	79768,91963,31401 10,52675,06172	1 32271,67959 47,97814	1 65818,56718 38,26912	9,90183,37101,3393 5,73156,9899	10,12146,68683 15,75577	54:36
90	79758,39288,25229 10,52918,01969	1 32223,70145 47,95601	1 65780,29806 38,24642	9,90177,63944,3494 5,73364,9529	10,12130,93106 15,75422	54: 0
89	79747,86370,23260 10,53160,94556	1 32175,74544 47,93388	1 65742,05164 38,22372	9,90171,90579,3965 5,73572,9710	10,12115,17684 15,75266	53:24
88	79737,33209,28704 10,53403,83937	1 32127,81156 47,91178	1 65703,82792 38,20105	9,90166,17006,4255 5,73781,0439	10,12099,42418 15,75111	52:48
87	79726,79805,44767 10,53646,70109	1 32079,89978 47,88970	1 65665,62687 38,17840	9,90160,43225,3816 5,73989,1719	10,12083,67307 15,74956	52:12
86	79716,26158,74658 10,53889,53070	1 32032,01008 47,86763	1 65627,44847 38,15576	9,90154,69236,2097 5,74197,3548	10,12067,92351 15,74801	51:36
85	79705,72269,21588 10,54132,32822	1 31984,14245 47,84558	1 65589,29271 38,13315	9,90148,95038,8549 5,74405,5929	10,12052,17550 15,74647	51: 0
84	79695,18136,88766 10,54375,09362	1 31936,29687 47,82355	1 65551,15956 38,11055	9,90143,20633,2620 5,74613,8860	10,12036,42903 15,74492	50:24
83	79684,63761,79404 10,54617,82691	1 31888,47332 47,80154	1 65513,04901 38,08796	9,90137,46019,3760 5,74822,2342	10,12020,68411 15,74339	49:48
82	79674,09143,96713 10,54860,52807	1 31840,67178 47,77955	1 65474,96105 38,06540	9,90131,71197,1418 5,75030,6377	10,12004,94072 15,74184	49:12
81	79663,54283,43906 10,55103,19710	1 31792,89223 47,75757	1 65436,89565 38,04285	9,90125,96166,5041 5,75239,0962	10,11989,19888 15,74031	48:36
80	79652,99180,24196 10,55345,83398	1 31745,13466 47,73561	1 65398,85280 38,02033	9,90120,20927,4079 5,75447,6101	10,11973,45857 15,73877	48: 0
79	79642,43834,40798 10,55588,43873	1 31697,39905 47,71368	1 65360,83247 37,99781	9,90114,45479,7978 5,75656,1791	10,11957,71980 15,73725	47:24
78	79631,88245,96925 10,55831,01131	1 31649,68537 47,69175	1 65322,83466 37,97533	9,90108,69823,6187 5,75864,8036	10,11941,98255 15,73571	46:48
77	79621,32414,95794 10,56073,55173	1 31601,99362 47,66985	1 65284,85933 37,95285	9,90102,93958,8151 5,76073,4833	10,11926,24684 15,73419	46:12
76	79610,76341,40621 10,56316,05999	1 31554,32377 47,64796	1 65246,90648 37,93039	9,90097,17885,3318 5,76282,2184	10,11910,51265 15,73266	45:36
75	79600,20025,34622 10,56558,53606	1 31506,67581 47,62610	1 65208,97609 37,90795	9,90091,41603,1134 5,76491,0089	10,11894,77999 15,73114	45: 0
74	79589,63466,81016 10,56800,97995	1 31459,04971 47,60425	1 65171,06814 37,88553	9,90085,65112,1045 5,76699,8548	10,11879,04885 15,72961	44:24
73	79579,06665,83021 10,57043,39166	1 31411,44546 47,58241	1 65133,18261 37,86313	9,90079,88412,2497 5,76908,7562	10,11863,31924 15,72810	43:48
72	79568,49622,43855 10,57285,77115	1 31363,86305 47,56060	1 65095,31948 37,84074	9,90074,11503,4935 5,77117,7132	10,11847,59114 15,72659	43:12
71	79557,92336,66740 10,57528,11844	1 31316,30245 47,53881	1 65057,47874 37,81837	9,90068,34385,7803 5,77326,7256	10,11831,86455 15,72506	42:36
70	79547,34808,54896 10,57770,43352	1 31268,76364 47,51702	1 65019,66037 37,79602	9,90062,57059,0547 5,77535,7937	10,11816,13949 15,72356	42: 0
69	79536,77038,11544 10,58012,71638	1 31221,24662 47,49527	1 64981,86435 37,77369	9,90056,79523,2610 5,77744,9172	10,11800,41593 15,72205	41:24
68	79526,19025,39906 10,58254,96701	1 31173,75135 47,47352	1 64944,09066 37,75138	9,90051,01778,3438 5,77954,0966	10,11784,69388 15,72054	40:48
67	79515,60770,43205 10,58497,18540	1 31126,27783 47,45181	1 64906,33928 37,72907	9,90045,23824,2472 5,78163,3316	10,11768,97334 15,71903	40:12

GRAD. 52.

37. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	60640,48261,19698	76262,36454	1 25761,47361	9,78276,26490,0397	9,88231,02666	19:48
	13,87716,79338	27,60771	16,74337	9,93740,1072	15,71903	
34	60654,35977,99036	76289,97225	1 25778,21698	9,78286,20230,1469	9,88246,74569	20:24
	13,87532,02964	27,61506	16,75165	9,93380,5111	15,71753	
35	60668,23510,02000	76317,58731	1 25794,96863	9,78296,13610,6580	9,88262,46322	21: 0
	13,87347,22362	27,62243	16,75996	9,93021,0795	15,71603	
36	60682,10857,24362	76345,20974	1 25811,72859	9,78306,06631,7375	9,88278,17925	21:36
	13,87162,37535	27,62978	16,76825	9,92661,8121	15,71454	
37	60695,98019,61897	76372,83952	1 25828,49684	9,78315,99293,5496	9,88293,89379	22:12
	13,86977,48483	27,63715	16,77656	9,92302,7090	15,71303	
38	60709,84997,10380	76400,47667	1 25845,27340	9,78325,91596,2586	9,88309,60682	22:48
	13,86792,55204	27,64453	16,78486	9,91943,7699	15,71154	
39	60723,71789,65584	76428,12120	1 25862,05826	9,78335,83540,0285	9,88325,31836	23:24
	13,86607,57703	27,65190	16,79318	9,91584,9947	15,71005	
40	60737,58397,23287	76455,77310	1 25878,85144	9,78345,75125,0232	9,88341,02841	24: 0
	13,86422,55976	27,65928	16,80150	9,91226,3834	15,70856	
41	60751,44819,79263	76483,43238	1 25895,65294	9,78355,66351,4066	9,88356,73697	24:36
	13,86237,50027	27,66666	16,80981	9,90867,9358	15,70707	
42	60765,31057,29290	76511,09904	1 25912,46275	9,78365,57219,3424	9,88372,44404	25:12
	13,86052,39855	27,67406	16,81815	9,90509,6515	15,70559	
43	60779,17109,69145	76538,77310	1 25929,28090	9,78375,47728,9939	9,88388,14963	25:48
	13,85867,25460	27,68145	16,82647	9,90151,5308	15,70410	
44	60793,02976,94605	76566,45455	1 25946,10737	9,78385,37880,5247	9,88403,85373	26:24
	13,85682,06845	27,68885	16,83481	9,89793,5732	15,70262	
45	60806,88659,01450	76594,14340	1 25962,94218	9,78395,27674,0979	9,88419,55635	27: 0
	13,85496,84008	27,69625	16,84315	9,89435,7789	15,70115	
46	60820,74155,85458	76621,83965	1 25979,78533	9,78405,17109,8768	9,88435,25750	27:36
	13,85311,56951	27,70366	16,85149	9,89078,1474	15,69966	
47	60834,59467,42409	76649,54331	1 25996,63682	9,78415,06188,0242	9,88450,95716	28:12
	13,85126,25673	27,71108	16,85984	9,88720,6790	15,69819	
48	60848,44593,68082	76677,25439	1 26013,49666	9,78424,94908,7032	9,88466,65535	28:48
	13,84940,90177	27,71849	16,86819	9,88363,3731	15,69672	
49	60862,29534,58259	76704,97288	1 26030,36485	9,78434,83272,0763	9,88482,35207	29:24
	13,84755,50462	27,72592	16,87655	9,88006,2299	15,69525	
50	60876,14290,08721	76732,69880	1 26047,24140	9,78444,71278,3062	9,88498,04732	30: 0
	13,84570,06528	27,73334	16,88491	9,87649,2492	15,69378	
51	60889,98860,15249	76760,43214	1 26064,12631	9,78454,58927,5554	9,88513,74110	30:36
	13,84384,58377	27,74078	16,89328	9,87292,4307	15,69232	
52	60903,83244,73626	76788,17292	1 26081,01959	9,78464,46219,9861	9,88529,43342	31:12
	13,84199,06008	27,74821	16,90164	9,86935,7745	15,69085	
53	60917,67443,79634	76815,92113	1 26097,92123	9,78474,33155,7606	9,88545,12427	31:48
	13,84013,49424	27,75565	16,91002	9,86579,2803	15,68939	
54	60931,51457,29058	76843,67678	1 26114,83125	9,78484,19735,0409	9,88560,81366	32:24
	13,83827,88623	27,76310	16,91840	9,86222,9481	15,68793	
55	60945,35285,17681	76871,43988	1 26131,74965	9,78494,05957,9890	9,88576,50159	33: 0
	13,83642,23607	27,77055	16,92678	9,85866,7776	15,68648	
56	60959,18927,41288	76899,21043	1 26148,67643	9,78503,91824,7666	9,88592,18807	33:36
	13,83456,54376	27,77801	16,93517	9,85510,7689	15,68502	
57	60973,02383,95664	76926,98844	1 26165,61160	9,78513,77335,5355	9,88607,87309	34:12
	13,83270,80931	27,78546	16,94356	9,85154,9217	15,68356	
58	60986,85654,76595	76954,77390	1 26182,55516	9,78523,62490,4572	9,88623,55665	34:48
	13,83085,03272	27,79293	16,95196	9,84799,2358	15,68212	
59	61000,68739,79867	76982,56683	1 26199,50712	9,78533,47289,6930	9,88639,23877	35:24
	13,82899,21401	27,80040	16,96035	9,84443,7113	15,68067	
60	61014,51639,01268	77010,36723	1 26216,46747	9,78543,31733,4043	9,88654,91944	36: 0
	13,82713,35315	27,80788	16,96877	9,84088,3478	15,67922	
61	61028,34352,36583	77038,17511	1 26233,43624	9,78553,15821,7521	9,88670,59866	36:36
	13,82527,45020	27,81535	16,97717	9,83733,1455	15,67778	
62	61042,16879,81603	77065,99046	1 26250,41341	9,78562,99554,8976	9,88686,27644	37:12
	13,82341,50511	27,82284	16,98558	9,83378,1039	15,67633	
63	61055,99221,32114	77093,81330	1 26267,39899	9,78572,82933,0015	9,88701,95277	37:48
	13,82155,51792	27,83032	16,99401	9,83023,2231	15,67490	
64	61069,81376,83906	77121,64362	1 26284,39300	9,78582,65956,2246	9,88717,62767	38:24
	13,81969,48864	27,83782	17,00243	9,82668,5030	15,67346	
65	61083,63346,32770	77149,48144	1 26301,39543	9,78592,48624,7276	9,88733,30113	39: 0
	13,81783,41725	27,84532	17,01085	9,82313,9434	15,67202	
66	61097,45129,74495	77177,32676	1 26318,40628	9,78602,30938,6710	9,88748,97315	39:36
	13,81597,30376	27,85282	17,01929	9,81959,5440	15,67060	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	79515,60770,43205 10,58497,18540	1 31126,27783 47,45181	1 64906,33928 37,72907	9,90045,23824,2472 5,78163,3316	10,11768,97334 15,71903	40:12
66	79505,02273,24665 10,58739,37155	1 31078,82602 47,43009	1 64868,61021 37,70680	9,90039,45660,9156 5,78372,6223	10,11753,25431 15,71753	39:36
65	79494,43533,87510 10,58981,52544	1 31031,39593 47,40840	1 64830,90341 37,68453	9,90033,67288,2933 5,78581,9687	10,11737,53678 15,71603	39: 0
64	79483,84552,34966 10,59223,64709	1 30983,98753 47,38674	1 64793,21888 37,66229	9,90027,88706,3246 5,78791,3709	10,11721,82075 15,71454	38:24
63	79473,25328,70257 10,59465,73646	1 30936,60079 47,36508	1 64755,55659 37,64006	9,90022,09914,9537 5,79000,8290	10,11706,10621 15,71303	37:48
62	79462,65862,96611 10,59707,79355	1 30889,23571 47,34344	1 64717,91653 37,61785	9,90016,30914,1247 5,79210,3430	10,11690,39318 15,71154	37:12
61	79452,06155,17256 10,59949,81838	1 30841,89227 47,32183	1 64680,29868 37,59566	9,90010,51703,7817 5,79419,9127	10,11674,68164 15,71005	36:36
60	79441,46205,35418 10,60191,81091	1 30794,57044 47,30022	1 64642,70302 37,57349	9,90004,72283,8690 5,79629,5384	10,11658,97159 15,70856	36: 0
59	79430,86013,54327 10,60433,77114	1 30747,27022 47,27865	1 64605,12953 37,55132	9,89998,92654,3306 5,79839,2202	10,11643,26303 15,70707	35:24
58	79420,25579,77213 10,60675,69908	1 30699,99157 47,25708	1 64567,57821 37,52919	9,89993,12815,1104 5,80048,9578	10,11627,55596 15,70559	34:48
57	79409,64904,07305 10,60917,59470	1 30652,73449 47,23553	1 64530,04902 37,50706	9,89987,32766,1526 5,80258,7516	10,11611,85037 15,70410	34:12
56	79399,03986,47835 10,61159,45800	1 30605,49896 47,21400	1 64492,54196 37,48496	9,89981,52507,4010 5,80468,6014	10,11596,14627 15,70262	33:36
55	79388,42827,02035 10,61401,28899	1 30558,28496 47,19249	1 64455,05700 37,46287	9,89975,72038,7996 5,80678,5072	10,11580,44365 15,70115	33: 0
54	79377,81425,73136 10,61643,08764	1 30511,09247 47,17099	1 64417,59413 37,44081	9,89969,91360,2924 5,80888,4694	10,11564,74250 15,69966	32:24
53	79367,19782,64372 10,61884,85394	1 30463,92148 47,14952	1 64380,15332 37,41874	9,89964,10471,8230 5,81098,4875	10,11549,04284 15,69819	31:48
52	79356,57897,78978 10,62126,58791	1 30416,77196 47,12806	1 64342,73458 37,39672	9,89958,29373,3355 5,81308,5619	10,11533,34465 15,69672	31:12
51	79345,95771,20187 10,62368,28952	1 30369,64390 47,10662	1 64305,33786 37,37469	9,89952,48064,7736 5,81518,6926	10,11517,64793 15,69525	30:36
50	79335,33402,91235 10,62609,95876	1 30322,53728 47,08519	1 64267,96317 37,35269	9,89946,66546,0810 5,81728,8796	10,11501,95268 15,69378	30: 0
49	79324,70792,95359 10,62851,59564	1 30275,45209 47,06378	1 64230,61048 37,33071	9,89940,84817,2014 5,81939,1228	10,11486,25890 15,69232	29:24
48	79314,07941,35795 10,63093,20015	1 30228,38831 47,04240	1 64193,27977 37,30874	9,89935,02878,0786 5,82149,4225	10,11470,56658 15,69085	28:48
47	79303,44848,15780 10,63334,77226	1 30181,34591 47,02102	1 64155,97103 37,28680	9,89929,20728,6561 5,82359,7784	10,11454,87573 15,68939	28:12
46	79292,81513,38554 10,63576,31199	1 30134,32489 46,99967	1 64118,68423 37,26486	9,89923,38368,8777 5,82570,1909	10,11439,18634 15,68793	27:36
45	79282,17937,07355 10,63817,81931	1 30087,32522 46,97833	1 64081,41937 37,24295	9,89917,55798,6868 5,82780,6597	10,11423,49841 15,68648	27: 0
44	79271,54119,25424 10,64059,29424	1 30040,34689 46,95701	1 64044,17642 37,22104	9,89911,73018,0271 5,82991,1851	10,11407,81193 15,68502	26:24
43	79260,90059,96000 10,64300,73675	1 29993,38988 46,93571	1 64006,95538 37,19917	9,89905,90026,8420 5,83201,7670	10,11392,12691 15,68356	25:48
42	79250,25759,22325 10,64542,14684	1 29946,45417 46,91443	1 63969,75621 37,17731	9,89900,06825,0750 5,83412,4055	10,11376,44335 15,68212	25:12
41	79239,61217,07641 10,64783,52450	1 29899,53974 46,89315	1 63932,57890 37,15546	9,89894,23412,6695 5,83623,1006	10,11360,76123 15,68067	24:36
40	79228,96433,55191 10,65024,86973	1 29852,64659 46,87191	1 63895,42344 37,13363	9,89888,39789,5689 5,83833,8522	10,11345,08056 15,67922	24: 0
39	79218,31408,68218 10,65266,18251	1 29805,77468 46,85067	1 63858,28981 37,11181	9,89882,55955,7167 5,84044,6607	10,11329,40134 15,67778	23:24
38	79207,66142,49967 10,65507,46284	1 29758,92401 46,82946	1 63821,17800 37,09003	9,89876,71911,0560 5,84255,5257	10,11313,72356 15,67633	22:48
37	79197,00635,03683 10,65748,71072	1 29712,09455 46,80825	1 63784,08797 37,06824	9,89870,87655,5303 5,84466,4475	10,11298,04723 15,67490	22:12
36	79186,34886,32611 10,65989,92614	1 29665,28630 46,78708	1 63747,01973 37,04648	9,89865,03189,0828 5,84677,4262	10,11282,37233 15,67346	21:36
35	79175,68896,39997 10,66231,10907	1 29618,49922 46,76591	1 63709,97325 37,02474	9,89859,18511,6566 5,84888,4616	10,11266,69887 15,67202	21: 0
34	79165,02665,29090 10,66472,25953	1 29571,73331 46,74477	1 63672,94851 37,00302	9,89853,33623,1950 5,85099,5538	10,11251,02685 15,67060	20:24

GRAD. 52.

37. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	61111,26727,04871	77205,17958	1 26335,42557	9,78612,12898,2150	9,88764,64375	40:12
	13,81411,14821	27,86032	17,02772	9,81605,3049	15,66916	
68	61125,08138,19692	77233,03990	1 26352,45329	9,78621,94503,5199	9,88780,31291	40:48
	13,81224,95055	27,86784	17,03616	9,81251,2259	15,66773	
69	61138,89363,14747	77260,90774	1 26369,48945	9,78631,75754,7458	9,88795,98064	41:24
	13,81038,71084	27,87535	17,04461	9,80897,3069	15,66630	
70	61152,70401,85831	77288,78309	1 26386,53406	9,78641,56652,0527	9,88811,64694	42: 0
	13,80852,42905	27,88288	17,05306	9,80543,5477	15,66488	
71	61166,51254,28736	77316,66597	1 26403,58712	9,78651,37195,6004	9,88827,31182	42:36
	13,80666,10520	27,89040	17,06151	9,80189,9483	15,66346	
72	61180,31920,39256	77344,55637	1 26420,64863	9,78661,17385,5487	9,88842,97528	43:12
	13,80479,73929	27,89794	17,06997	9,79836,5083	15,66204	
73	61194,12400,13185	77372,45431	1 26437,71860	9,78670,97222,0570	9,88858,63732	43:48
	13,80293,33132	27,90546	17,07844	9,79483,2279	15,66062	
74	61207,92693,46317	77400,35977	1 26454,79704	9,78680,76705,2849	9,88874,29794	44:24
	13,80106,88132	27,91301	17,08690	9,79130,1067	15,65920	
75	61221,72800,34449	77428,27278	1 26471,88394	9,78690,55835,3916	9,88889,95714	45: 0
	13,79920,38927	27,92056	17,09537	9,78777,1448	15,65779	
76	61235,52720,73376	77456,19334	1 26488,97931	9,78700,34612,5364	9,88905,61493	45:36
	13,79733,85519	27,92810	17,10385	9,78424,3419	15,65638	
77	61249,32454,58895	77484,12144	1 26506,08316	9,78710,13036,8783	9,88921,27131	46:12
	13,79547,27908	27,93566	17,11233	9,78071,6979	15,65497	
78	61263,12001,86803	77512,05710	1 26523,19549	9,78719,91108,5762	9,88936,92628	46:48
	13,79360,66094	27,94322	17,12081	9,77719,2128	15,65357	
79	61276,91362,52897	77540,00032	1 26540,31630	9,78729,68827,7890	9,88952,57985	47:24
	13,79174,00079	27,95078	17,12931	9,77366,8862	15,65216	
80	61290,70536,52976	77567,95110	1 26557,44561	9,78739,46194,6752	9,88968,23201	48: 0
	13,78987,29863	27,95836	17,13780	9,77014,7184	15,65075	
81	61304,49523,82839	77595,90946	1 26574,58341	9,78749,23209,3936	9,88983,88276	48:36
	13,78800,55445	27,96592	17,14629	9,76662,7088	15,64936	
82	61318,28324,38284	77623,87538	1 26591,72970	9,78758,99872,1024	9,88999,53212	49:12
	13,78613,76829	27,97351	17,15481	9,76310,8575	15,64795	
83	61332,06938,15113	77651,84889	1 26608,88451	9,78768,76182,9599	9,89015,18007	49:48
	13,78426,94011	27,98109	17,16330	9,75959,1645	15,64656	
84	61345,85365,09124	77679,82998	1 26626,04781	9,78778,52142,1244	9,89030,82663	50:24
	13,78240,06996	27,98867	17,17183	9,75607,6295	15,64517	
85	61359,63605,16120	77707,81865	1 26643,21964	9,78788,27749,7539	9,89046,47180	51: 0
	13,78053,15782	27,99627	17,18033	9,75256,2523	15,64377	
86	61373,41658,31902	77735,81492	1 26660,39997	9,78798,03006,0062	9,89062,11557	51:36
	13,77866,20370	28,00387	17,18886	9,74905,0329	15,64239	
87	61387,19524,52272	77763,81879	1 26677,58883	9,78807,77911,0391	9,89077,75796	52:12
	13,77679,20762	28,01147	17,19739	9,74553,9712	15,64099	
88	61400,97203,73034	77791,83026	1 26694,78622	9,78817,52465,0103	9,89093,39895	52:48
	13,77492,16955	28,01908	17,20591	9,74203,0670	15,63961	
89	61414,74695,89989	77819,84934	1 26711,99213	9,78827,26668,0773	9,89109,03856	53:24
	13,77305,08954	28,02669	17,21446	9,73852,3202	15,63823	
90	61428,52000,98943	77847,87603	1 26729,20659	9,78837,00520,3975	9,89124,67679	54: 0
	13,77117,96757	28,03430	17,22299	9,73501,7306	15,63685	
91	61442,29118,95700	77875,91033	1 26746,42958	9,78846,74022,1281	9,89140,31364	54:36
	13,76930,80364	28,04193	17,23153	9,73151,2983	15,63547	
92	61456,06049,76064	77903,95226	1 26763,66111	9,78856,47173,4264	9,89155,94911	55:12
	13,76743,59778	28,04955	17,24008	9,72801,0229	15,63409	
93	61469,82793,35842	77932,00181	1 26780,90119	9,78866,19974,4493	9,89171,58320	55:48
	13,76556,34998	28,05719	17,24864	9,72450,9043	15,63271	
94	61483,59349,70840	77960,05900	1 26798,14983	9,78875,92425,3536	9,89187,21591	56:24
	13,76369,06024	28,06482	17,25719	9,72100,9426	15,63135	
95	61497,35718,76864	77988,12382	1 26815,40702	9,78885,64526,2962	9,89202,84726	57: 0
	13,76181,72858	28,07247	17,26575	9,71751,1375	15,62997	
96	61511,11900,49722	78016,19629	1 26832,67277	9,78895,36277,4337	9,89218,47723	57:36
	13,75994,35500	28,08011	17,27433	9,71401,4889	15,62860	
97	61524,87894,85222	78044,27640	1 26849,94710	9,78905,07678,9226	9,89234,10583	58:12
	13,75806,93949	28,08776	17,28289	9,71051,9967	15,62724	
98	61538,63701,79171	78072,36416	1 26867,22999	9,78914,78730,9193	9,89249,73307	58:48
	13,75619,48209	28,09541	17,29147	9,70702,6607	15,62587	
99	61552,39321,27380	78100,45957	1 26884,52146	9,78924,49433,5800	9,89265,35894	59:24
	13,75431,98278	28,10308	17,30005	9,70353,4808	15,62452	
100	61566,14753,25658	78128,56265	1 26901,82151	9,78934,19787,0608	9,89280,98346	60: 0
	13,75244,44157	28,11074	17,30863	9,70004,4570	15,62315	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	79154,36193,03137 10,66713,37751	1 29524,98854 46,72363	1 63635,94549 36,98130	9,89847,48523,6412 5,85310,7030	10,11235,35625 15,66916	19:48
32	79143,69479,65386 10,66954,46299	1 29478,26491 46,70253	1 63598,96419 36,95961	9,89841,63212,9382 5,85521,9091	10,11219,68709 15,66773	19:12
31	79133,02525,19087 10,67195,51597	1 29431,56238 46,68142	1 63562,00458 36,93794	9,89835,77691,0291 5,85733,1721	10,11204,01936 15,66630	18:36
30	79122,35329,67490 10,67436,53644	1 29384,88096 46,66035	1 63525,06664 36,91627	9,89829,91957,8570 5,85944,4921	10,11188,35306 15,66488	18: 0
29	79111,67893,13846 10,67677,52439	1 29338,22061 46,63929	1 63488,15037 36,89464	9,89824,06013,3649 5,86155,8692	10,11172,68818 15,66346	17:24
28	79101,00215,61407 10,67918,47982	1 29291,58132 46,61824	1 63451,25573 36,87301	9,89818,19857,4957 5,86367,3033	10,11157,02472 15,66204	16:48
27	79090,32297,13425 10,68159,40273	1 29244,96308 46,59722	1 63414,38272 36,85140	9,89812,33490,1924 5,86578,7945	10,11141,36268 15,66062	16:12
26	79079,64137,73152 10,68400,29309	1 29198,36586 46,57620	1 63377,53132 36,82981	9,89806,46911,3979 5,86790,3430	10,11125,70206 15,65920	15:36
25	79068,95737,43843 10,68641,15090	1 29151,78966 46,55522	1 63340,70151 36,80823	9,89800,60121,0549 5,87001,9484	10,11110,04286 15,65779	15: 0
24	79058,27096,28753 10,68881,97617	1 29105,23444 46,53424	1 63303,89328 36,78668	9,89794,73119,1065 5,87213,6112	10,11094,38507 15,65638	14:24
23	79047,58214,31136 10,69122,76887	1 29058,70020 46,51327	1 63267,10660 36,76513	9,89788,85905,4953 5,87425,3312	10,11078,72869 15,65497	13:48
22	79036,89091,54249 10,69363,52901	1 29012,18693 46,49234	1 63230,34147 36,74361	9,89782,98480,1641 5,87637,1084	10,11063,07372 15,65357	13:12
21	79026,19728,01348 10,69604,25658	1 28965,69459 46,47141	1 63193,59786 36,72211	9,89777,10843,0557 5,87848,9431	10,11047,42015 15,65216	12:36
20	79015,50123,75690 10,69844,95155	1 28919,22318 46,45050	1 63156,87575 36,70061	9,89771,22994,1126 5,88060,8350	10,11031,76799 15,65075	12: 0
19	79004,80278,80535 10,70085,61394	1 28872,77268 46,42962	1 63120,17514 36,67914	9,89765,34933,2776 5,88272,7843	10,11016,11724 15,64936	11:24
18	78994,10193,19141 10,70326,24374	1 28826,34306 46,40874	1 63083,49600 36,65768	9,89759,46660,4933 5,88484,7911	10,11000,46788 15,64795	10:48
17	78983,39866,94767 10,70566,84093	1 28779,93432 46,38788	1 63046,83832 36,63625	9,89753,58175,7022 5,88696,8554	10,10984,81993 15,64656	10:12
16	78972,69300,10674 10,70807,40551	1 28733,54644 46,36704	1 63010,20207 36,61481	9,89747,69478,8468 5,88908,9770	10,10969,17337 15,64517	9:36
15	78961,98492,70123 10,71047,93747	1 28687,17940 46,34621	1 62973,58726 36,59342	9,89741,80569,8698 5,89121,1563	10,10953,52820 15,64377	9: 0
14	78951,27444,76376 10,71288,43680	1 28640,83319 46,32541	1 62936,99384 36,57202	9,89735,91448,7135 5,89333,3932	10,10937,88443 15,64239	8:24
13	78940,56156,32696 10,71528,90351	1 28594,50778 46,30462	1 62900,42182 36,55064	9,89730,02115,3203 5,89545,6876	10,10922,24204 15,64099	7:48
12	78929,84627,42345 10,71769,33757	1 28548,20316 46,28385	1 62863,87118 36,52929	9,89724,12569,6327 5,89758,0397	10,10906,60105 15,63961	7:12
11	78919,12858,08588 10,72009,73897	1 28501,91931 46,26309	1 62827,34189 36,50795	9,89718,22811,5930 5,89970,4495	10,10890,96144 15,63823	6:36
10	78908,40848,34691 10,72250,10774	1 28455,65622 46,24235	1 62790,83394 36,48663	9,89712,32841,1435 5,90182,9169	10,10875,32321 15,63685	6: 0
9	78897,68598,23917 10,72490,44383	1 28409,41387 46,22163	1 62754,34731 36,46531	9,89706,42658,2266 5,90395,4422	10,10859,68636 15,63547	5:24
8	78886,96107,79534 10,72730,74725	1 28363,19224 46,20093	1 62717,88200 36,44403	9,89700,52262,7844 5,90608,0253	10,10844,05089 15,63409	4:48
7	78876,23377,04809 10,72971,01801	1 28316,99131 46,18023	1 62681,43797 36,42275	9,89694,61654,7591 5,90820,6661	10,10828,41680 15,63271	4:12
6	78865,50406,03008 10,73211,25606	1 28270,81108 46,15956	1 62645,01522 36,40150	9,89688,70834,0930 5,91033,3648	10,10812,78409 15,63135	3:36
5	78854,77194,77402 10,73451,46144	1 28224,65152 46,13891	1 62608,61372 36,38025	9,89682,79800,7282 5,91246,1214	10,10797,15274 15,62997	3: 0
4	78844,03743,31258 10,73691,63411	1 28178,51261 46,11826	1 62572,23347 36,35903	9,89676,88554,6068 5,91458,9360	10,10781,52277 15,62860	2:24
3	78833,30051,67847 10,73931,77407	1 28132,39435 46,09764	1 62535,87444 36,33781	9,89670,97095,6708 5,91671,8086	10,10765,89417 15,62724	1:48
2	78822,56119,90440 10,74171,88132	1 28086,29671 46,07704	1 62499,53663 36,31663	9,89665,05423,8622 5,91884,7390	10,10750,26693 15,62587	1:12
1	78811,81948,02308 10,74411,95586	1 28040,21967 46,05645	1 62463,22000 36,29545	9,89659,13539,1232 5,92097,7277	10,10734,64106 15,62452	0:36
0	78801,07536,06722 10,74651,99766	1 27994,16322 46,03588	1 62426,92455 36,27429	9,89653,21441,3955 5,92310,7744	10,10719,01654 15,62315	0: 0

GRAD. 52.

38. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	61566,14753,25658 13,75244,44157	78128,56265 28,11074	1 26901,82151 17,30863	9,78934,19787,0608 9,70004,4570	9,89280,98346 15,62315	0: 0
1	61579,89997,69815 13,75056,85847	78156,67339 28,11841	1 26919,13014 17,31722	9,78943,89791,5178 9,69655,5890	9,89296,60661 15,62179	0:36
2	61593,65054,55662 13,74869,23348	78184,79180 28,12609	1 26936,44736 17,32582	9,78953,59447,1068 9,69306,8768	9,89312,22840 15,62044	1:12
3	61607,39923,79010 13,74681,56660	78212,91789 28,13377	1 26953,77318 17,33442	9,78963,28753,9836 9,68958,3202	9,89327,84884 15,61909	1:48
4	61621,14605,35670 13,74493,85787	78241,05166 28,14145	1 26971,10760 17,34302	9,78972,97712,3038 9,68609,9191	9,89343,46793 15,61773	2:24
5	61634,89099,21457 13,74306,10725	78269,19311 28,14914	1 26988,45062 17,35162	9,78982,66322,2229 9,68261,6734	9,89359,08566 15,61639	3: 0
6	61648,63405,32182 13,74118,31477	78297,34225 28,15684	1 27005,80224 17,36024	9,78992,34583,8963 9,67913,5829	9,89374,70205 15,61504	3:36
7	61662,37523,63659 13,73930,48044	78325,49909 28,16453	1 27023,16248 17,36886	9,79002,02497,4792 9,67565,6475	9,89390,31709 15,61369	4:12
8	61676,11454,11703 13,73742,60424	78353,66362 28,17224	1 27040,53134 17,37748	9,79011,70063,1267 9,67217,8672	9,89405,93078 15,61235	4:48
9	61689,85196,72127 13,73554,68622	78381,83586 28,17995	1 27057,90882 17,38610	9,79021,37280,9939 9,66870,2417	9,89421,54313 15,61101	5:24
10	61703,58751,40749 13,73366,72633	78410,01581 28,18766	1 27075,29492 17,39474	9,79031,04151,2356 9,66522,7710	9,89437,15414 15,60968	6: 0
11	61717,32118,13382 13,73178,72463	78438,20347 28,19538	1 27092,68966 17,40337	9,79040,70674,0066 9,66175,4548	9,89452,76382 15,60833	6:36
12	61731,05296,85845 13,72990,68109	78466,39885 28,20311	1 27110,09303 17,41201	9,79050,36849,4614 9,65828,2933	9,89468,37215 15,60700	7:12
13	61744,78287,53954 13,72802,59572	78494,60196 28,21083	1 27127,50504 17,42065	9,79060,02677,7547 9,65481,2860	9,89483,97915 15,60567	7:48
14	61758,51090,13526 13,72614,46854	78522,81279 28,21857	1 27144,92569 17,42930	9,79069,68159,0407 9,65134,4331	9,89499,58482 15,60434	8:24
15	61772,23704,60380 13,72426,29954	78551,03136 28,22631	1 27162,35499 17,43796	9,79079,33293,4738 9,64787,7342	9,89515,18916 15,60301	9: 0
16	61785,96130,90334 13,72238,08875	78579,25767 28,23405	1 27179,79295 17,44662	9,79088,98081,2080 9,64441,1893	9,89530,79217 15,60169	9:36
17	61799,68368,99209 13,72049,83614	78607,49172 28,24179	1 27197,23957 17,45528	9,79098,62522,3973 9,64094,7984	9,89546,39386 15,60036	10:12
18	61813,40418,82823 13,71861,54175	78635,73351 28,24955	1 27214,69485 17,46394	9,79108,26617,1957 9,63748,5612	9,89561,99422 15,59904	10:48
19	61827,12280,36998 13,71673,20556	78663,98306 28,25731	1 27232,15879 17,47262	9,79117,90365,7569 9,63402,4776	9,89577,59326 15,59773	11:24
20	61840,83953,57554 13,71484,82759	78692,24037 28,26507	1 27249,63141 17,48130	9,79127,53768,2345 9,63056,5475	9,89593,19099 15,59640	12: 0
21	61854,55438,40313 13,71296,40785	78720,50544 28,27284	1 27267,11271 17,48998	9,79137,16824,7820 9,62710,7709	9,89608,78739 15,59509	12:36
22	61868,26734,81098 13,71107,94632	78748,77828 28,28062	1 27284,60269 17,49866	9,79146,79535,5529 9,62365,1475	9,89624,38248 15,59378	13:12
23	61881,97842,75730 13,70919,44305	78777,05890 28,28839	1 27302,10135 17,50736	9,79156,41900,7004 9,62019,6771	9,89639,97626 15,59247	13:48
24	61895,68762,20035 13,70730,89799	78805,34729 28,29617	1 27319,60871 17,51605	9,79166,03920,3775 9,61674,3600	9,89655,56873 15,59115	14:24
25	61909,39493,09834 13,70542,31119	78833,64346 28,30396	1 27337,12476 17,52475	9,79175,65594,7375 9,61329,1956	9,89671,15988 15,58985	15: 0
26	61923,10035,40953 13,70353,68265	78861,94742 28,31175	1 27354,64951 17,53345	9,79185,26923,9331 9,60984,1840	9,89686,74973 15,58855	15:36
27	61936,80389,09218 13,70165,01235	78890,25917 28,31955	1 27372,18296 17,54217	9,79194,87908,1171 9,60639,3250	9,89702,33828 15,58725	16:12
28	61950,50554,10453 13,69976,30032	78918,57872 28,32736	1 27389,72513 17,55087	9,79204,48547,4421 9,60294,6187	9,89717,92553 15,58594	16:48
29	61964,20530,40485 13,69787,54655	78946,90608 28,33516	1 27407,27600 17,55960	9,79214,08842,0608 9,59950,0647	9,89733,51147 15,58465	17:24
30	61977,90317,95140 13,69598,75107	78975,24124 28,34297	1 27424,83560 17,56832	9,79223,68792,1255 9,59605,6629	9,89749,09612 15,58335	18: 0
31	61991,59916,70247 13,69409,91386	79003,58421 28,35079	1 27442,40392 17,57705	9,79233,28397,7884 9,59261,4134	9,89764,67947 15,58205	18:36
32	62005,29326,61633 13,69221,03493	79031,93500 28,35861	1 27459,98097 17,58579	9,79242,87659,2018 9,58917,3159	9,89780,26152 15,58077	19:12
33	62018,98547,65126 13,69032,11430	79060,29361 28,36644	1 27477,56676 17,59452	9,79252,46576,5177 9,58573,3704	9,89795,84229 15,57947	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	78801,07536,06722 10,74651,99766	1 27994,16322 46,03588	1 62426,92455 36,27429	9,89653,21441,3955 5,92310,7744	10,10719,01654 15,62315	60: 0
99	78790,32884,06956 10,74892,00672	1 27948,12734 46,01532	1 62390,65026 36,25315	9,89647,29130,6211 5,92523,8791	10,10703,39339 15,62179	59:24
98	78779,57992,06284 10,75131,98305	1 27902,11202 45,99478	1 62354,39711 36,23202	9,89641,36606,7420 5,92737,0421	10,10687,77160 15,62044	58:48
97	78768,82860,07979 10,75371,92662	1 27856,11724 45,97425	1 62318,16509 36,21092	9,89635,43869,6999 5,92950,2633	10,10672,15116 15,61909	58:12
96	78758,07488,15317 10,75611,83743	1 27810,14299 45,95375	1 62281,95417 36,18981	9,89629,50919,4366 5,93163,5426	10,10656,53207 15,61773	57:36
95	78747,31876,31574 10,75851,71549	1 27764,18924 45,93326	1 62245,76436 36,16874	9,89623,57755,8940 5,93376,8803	10,10640,91434 15,61639	57: 0
94	78736,56024,60025 10,76091,56076	1 27718,25598 45,91279	1 62209,59562 36,14768	9,89617,64379,0137 5,93590,2763	10,10625,29795 15,61504	56:24
93	78725,79933,03949 10,76331,37326	1 27672,34319 45,89233	1 62173,44794 36,12664	9,89611,70788,7374 5,93803,7305	10,10609,68291 15,61369	55:48
92	78715,03601,66623 10,76571,15297	1 27626,45086 45,87189	1 62137,32130 36,10560	9,89605,76985,0069 5,94017,2432	10,10594,06922 15,61235	55:12
91	78704,27030,51326 10,76810,89989	1 27580,57897 45,85147	1 62101,21570 36,08460	9,89599,82967,7637 5,94230,8143	10,10578,45687 15,61101	54:36
90	78693,50219,61337 10,77050,61400	1 27534,72750 45,83105	1 62065,13110 36,06359	9,89593,88736,9494 5,94444,4438	10,10562,84586 15,60968	54: 0
89	78682,73168,99937 10,77290,29531	1 27488,89645 45,81067	1 62029,06751 36,04262	9,89587,94292,5056 5,94658,1319	10,10547,23618 15,60833	53:24
88	78671,95878,70406 10,77529,94380	1 27443,08578 45,79029	1 61993,02489 36,02165	9,89581,99634,3737 5,94871,8784	10,10531,62785 15,60700	52:48
87	78661,18348,76026 10,77769,55947	1 27397,29549 45,76994	1 61957,00324 36,00071	9,89576,04762,4953 5,95085,6835	10,10516,02085 15,60567	52:12
86	78650,40579,20079 10,78009,14230	1 27351,52555 45,74959	1 61921,00253 35,97977	9,89570,09676,8118 5,95299,5473	10,10500,41518 15,60434	51:36
85	78639,62570,05849 10,78248,69230	1 27305,77596 45,72926	1 61885,02276 35,95886	9,89564,14377,2645 5,95513,4696	10,10484,81084 15,60301	51: 0
84	78628,84321,36619 10,78488,20946	1 27260,04670 45,70896	1 61849,06390 35,93796	9,89558,18863,7949 5,95727,4506	10,10469,20783 15,60169	50:24
83	78618,05833,15673 10,78727,69375	1 27214,33774 45,68866	1 61813,12594 35,91708	9,89552,23136,3443 5,95941,4904	10,10453,60614 15,60036	49:48
82	78607,27105,46298 10,78967,14519	1 27168,64908 45,66839	1 61777,20886 35,89620	9,89546,27194,8539 5,96155,5889	10,10438,00578 15,59904	49:12
81	78596,48138,31779 10,79206,56377	1 27122,98069 45,64813	1 61741,31266 35,87536	9,89540,31039,2650 5,96369,7462	10,10422,40674 15,59773	48:36
80	78585,68931,75402 10,79445,94947	1 27077,33256 45,62788	1 61705,43730 35,85452	9,89534,34669,5188 5,96583,9623	10,10406,80901 15,59640	48: 0
79	78574,89485,80455 10,79685,30228	1 27031,70468 45,60765	1 61669,58278 35,83371	9,89528,38085,5565 5,96798,2372	10,10391,21261 15,59509	47:24
78	78564,09800,50227 10,79924,62221	1 26986,09703 45,58744	1 61633,74907 35,81290	9,89522,41287,3193 5,97012,5711	10,10375,61752 15,59378	46:48
77	78553,29875,88006 10,80163,90924	1 26940,50959 45,56725	1 61597,93617 35,79211	9,89516,44274,7482 5,97226,9639	10,10360,02374 15,59247	46:12
76	78542,49711,97082 10,80403,16337	1 26894,94234 45,54707	1 61562,14406 35,77135	9,89510,47047,7843 5,97441,4157	10,10344,43127 15,59115	45:36
75	78531,69308,80745 10,80642,38459	1 26849,39527 45,52690	1 61526,37271 35,75059	9,89504,49606,3686 5,97655,9265	10,10328,84012 15,58985	45: 0
74	78520,88666,42286 10,80881,57288	1 26803,86837 45,50676	1 61490,62212 35,72985	9,89498,51950,4421 5,97870,4962	10,10313,25027 15,58855	44:24
73	78510,07784,84998 10,81120,72826	1 26758,36161 45,48662	1 61454,89227 35,70912	9,89492,54079,9459 5,98085,1253	10,10297,66172 15,58725	43:48
72	78499,26664,12172 10,81359,85069	1 26712,87499 45,46651	1 61419,18315 35,68842	9,89486,55994,8206 5,98299,8132	10,10282,07447 15,58594	43:12
71	78488,45304,27103 10,81598,94020	1 26667,40848 45,44641	1 61383,49473 35,66773	9,89480,57695,0074 5,98514,5605	10,10266,48853 15,58465	42:36
70	78477,63705,33083 10,81837,99675	1 26621,96207 45,42633	1 61347,82700 35,64705	9,89474,59180,4469 5,98729,3668	10,10250,90388 15,58335	42: 0
69	78466,81867,33408 10,82077,02035	1 26576,53574 45,40627	1 61312,17995 35,62640	9,89468,60451,0801 5,98944,2325	10,10235,32053 15,58205	41:24
68	78455,99790,31373 10,82316,01098	1 26531,12947 45,38621	1 61276,55355 35,60575	9,89462,61506,8476 5,99159,1574	10,10219,73848 15,58077	40:48
67	78445,17474,30275 10,82554,96865	1 26485,74326 45,36618	1 61240,94780 35,58512	9,89456,62347,6902 5,99374,1417	10,10204,15771 15,57947	40:12

GRAD. 51.

38. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	62018,98547,65126 13,69032,11430	79060,29361 28,36644	1 27477,56676 17,59452	9,79252,46576,5177 9,58573,3704	9,89795,84229 15,57947	19:48
34	62032,67579,76556 13,68843,15196	79088,66005 28,37427	1 27495,16128 17,60326	9,79262,05149,8881 9,58229,5765	9,89811,42176 15,57819	20:24
35	62046,36422,91752 13,68654,14794	79117,03432 28,38211	1 27512,76454 17,61201	9,79271,63379,4646 9,57885,9344	9,89826,99995 15,57690	21: 0
36	62060,05077,06546 13,68465,10220	79145,41643 28,38996	1 27530,37655 17,62076	9,79281,21265,3990 9,57542,4438	9,89842,57685 15,57562	21:36
37	62073,73542,16766 13,68276,01480	79173,80639 28,39779	1 27547,99731 17,62952	9,79290,78807,8428 9,57199,1048	9,89858,15247 15,57434	22:12
38	62087,41818,18246 13,68086,88570	79202,20418 28,40565	1 27565,62683 17,63827	9,79300,36006,9476 9,56855,9169	9,89873,72681 15,57306	22:48
39	62101,09905,06816 13,67897,71494	79230,60983 28,41351	1 27583,26510 17,64705	9,79309,92862,8645 9,56512,8802	9,89889,29987 15,57178	23:24
40	62114,77802,78310 13,67708,50251	79259,02334 28,42137	1 27600,91215 17,65581	9,79319,49375,7447 9,56169,9948	9,89904,87165 15,57051	24: 0
41	62128,45511,28561 13,67519,24841	79287,44471 28,42924	1 27618,56796 17,66459	9,79329,05545,7395 9,55827,2601	9,89920,44216 15,56923	24:36
42	62142,13030,53402 13,67329,95266	79315,87395 28,43711	1 27636,23255 17,67337	9,79338,61372,9996 9,55484,6764	9,89936,01139 15,56796	25:12
43	62155,80360,48668 13,67140,61525	79344,31106 28,44499	1 27653,90592 17,68216	9,79348,16857,6760 9,55142,2433	9,89951,57935 15,56670	25:48
44	62169,47501,10193 13,66951,23620	79372,75605 28,45287	1 27671,58808 17,69094	9,79357,71999,9193 9,54799,9608	9,89967,14605 15,56543	26:24
45	62183,14452,33813 13,66761,81551	79401,20892 28,46075	1 27689,27902 17,69974	9,79367,26799,8801 9,54457,8288	9,89982,71148 15,56416	27: 0
46	62196,81214,15364 13,66572,35319	79429,66967 28,46865	1 27706,97876 17,70854	9,79376,81257,7089 9,54115,8472	9,89998,27564 15,56290	27:36
47	62210,47786,50683 13,66382,84923	79458,13832 28,47654	1 27724,68730 17,71734	9,79386,35373,5561 9,53774,0158	9,90013,83854 15,56165	28:12
48	62224,14169,35606 13,66193,30367	79486,61486 28,48445	1 27742,40464 17,72615	9,79395,89147,5719 9,53432,3344	9,90029,40019 15,56038	28:48
49	62237,80362,65973 13,66003,71647	79515,09931 28,49236	1 27760,13079 17,73496	9,79405,42579,9063 9,53090,8031	9,90044,96057 15,55913	29:24
50	62251,46366,37620 13,65814,08766	79543,59167 28,50026	1 27777,86575 17,74378	9,79414,95670,7094 9,52749,4217	9,90060,51970 15,55787	30: 0
51	62265,12180,46386 13,65624,41727	79572,09193 28,50819	1 27795,60953 17,75260	9,79424,48420,1311 9,52408,1899	9,90076,07757 15,55662	30:36
52	62278,77804,88113 13,65434,70525	79600,60012 28,51610	1 27813,36213 17,76143	9,79434,00828,3210 9,52067,1079	9,90091,63419 15,55538	31:12
53	62292,43239,58638 13,65244,95166	79629,11622 28,52404	1 27831,12356 17,77026	9,79443,52895,4289 9,51726,1753	9,90107,18957 15,55412	31:48
54	62306,08484,53804 13,65055,15646	79657,64026 28,53197	1 27848,89382 17,77910	9,79453,04621,6042 9,51385,3922	9,90122,74369 15,55288	32:24
55	62319,73539,69450 13,64865,31970	79686,17223 28,53990	1 27866,67292 17,78794	9,79462,56006,9964 9,51044,7583	9,90138,29657 15,55164	33: 0
56	62333,38405,01420 13,64675,44135	79714,71213 28,54785	1 27884,46086 17,79679	9,79472,07051,7547 9,50704,2735	9,90153,84821 15,55039	33:36
57	62347,03080,45555 13,64485,52144	79743,25998 28,55579	1 27902,25765 17,80564	9,79481,57756,0282 9,50363,9378	9,90169,39860 15,54916	34:12
58	62360,67565,97699 13,64295,55996	79771,81577 28,56375	1 27920,06329 17,81449	9,79491,08119,9660 9,50023,7510	9,90184,94776 15,54792	34:48
59	62374,31861,53695 13,64105,55691	79800,37952 28,57170	1 27937,87778 17,82336	9,79500,58143,7170 9,49683,7131	9,90200,49568 15,54668	35:24
60	62387,95967,09386 13,63915,51233	79828,95122 28,57967	1 27955,70114 17,83222	9,79510,07827,4301 9,49343,8238	9,90216,04236 15,54545	36: 0
61	62401,59882,60619 13,63725,42618	79857,53089 28,58763	1 27973,53336 17,84109	9,79519,57171,2539 9,49004,0830	9,90231,58781 15,54422	36:36
62	62415,23608,03237 13,63535,29850	79886,11852 28,59561	1 27991,37445 17,84996	9,79529,06175,3369 9,48664,4907	9,90247,13203 15,54299	37:12
63	62428,87143,33087 13,63345,12929	79914,71413 28,60359	1 28009,22441 17,85885	9,79538,54839,8276 9,48325,0468	9,90262,67502 15,54177	37:48
64	62442,50488,46016 13,63154,91854	79943,31772 28,61157	1 28027,08326 17,86773	9,79548,03164,8744 9,47985,7510	9,90278,21679 15,54054	38:24
65	62456,13643,37870 13,62964,66627	79971,92929 28,61955	1 28044,95099 17,87662	9,79557,51150,6254 9,47646,6033	9,90293,75733 15,53932	39: 0
66	62469,76608,04497 13,62774,37247	80000,54884 28,62755	1 28062,82761 17,88551	9,79566,98797,2287 9,47307,6037	9,90309,29665 15,53810	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	78445,17474,30275 10,82554,96865	1 26485,74326 45,36618	1 61240,94780 35,58512	9,89456,62347,6902 5,99374,1417	10,10204,15771 15,57947	40:12
66	78434,34919,33410 10,82793,89334	1 26440,37708 45,34616	1 61205,36268 35,56451	9,89450,62973,5485 5,99589,1851	10,10188,57824 15,57819	39:36
65	78423,52125,44076 10,83032,78505	1 26395,03092 45,32615	1 61169,79817 35,54391	9,89444,63384,3634 5,99804,2882	10,10173,00005 15,57690	39: 0
64	78412,69092,65571 10,83271,64376	1 26349,70477 45,30617	1 61134,25426 35,52334	9,89438,63580,0752 6,00019,4505	10,10157,42315 15,57562	38:24
63	78401,85821,01195 10,83510,46947	1 26304,39860 45,28620	1 61098,73092 35,50277	9,89432,63560,6247 6,00234,6724	10,10141,84753 15,57434	37:48
62	78391,02310,54248 10,83749,26219	1 26259,11240 45,26625	1 61063,22815 35,48222	9,89426,63325,9523 6,00449,9537	10,10126,27319 15,57306	37:12
61	78380,18561,28029 10,83988,02189	1 26213,84615 45,24631	1 61027,74593 35,46169	9,89420,62875,9986 6,00665,2946	10,10110,70013 15,57178	36:36
60	78369,34573,25840 10,84226,74857	1 26168,59984 45,22638	1 60992,28424 35,44117	9,89414,62210,7040 6,00880,6950	10,10095,12835 15,57051	36: 0
59	78358,50346,50983 10,84465,44222	1 26123,37346 45,20648	1 60956,84307 35,42067	9,89408,61330,0090 6,01096,1551	10,10079,55784 15,56923	35:24
58	78347,65881,06761 10,84704,10283	1 26078,16698 45,18659	1 60921,42240 35,40018	9,89402,60233,8539 6,01311,6748	10,10063,98861 15,56796	34:48
57	78336,81176,96478 10,84942,73041	1 26032,98039 45,16671	1 60886,02222 35,37971	9,89396,58922,1791 6,01527,2542	10,10048,42065 15,56670	34:12
56	78325,96234,23437 10,85181,32493	1 25987,81368 45,14685	1 60850,64251 35,35926	9,89390,57394,9249 6,01742,8934	10,10032,85395 15,56543	33:36
55	78315,11052,90944 10,85419,88640	1 25942,66683 45,12701	1 60815,28325 35,33882	9,89384,55652,0315 6,01958,5922	10,10017,28852 15,56416	33: 0
54	78304,25633,02304 10,85658,41480	1 25897,53982 45,10719	1 60779,94443 35,31839	9,89378,53693,4393 6,02174,3510	10,10001,72436 15,56290	32:24
53	78293,39974,60824 10,85896,91014	1 25852,43263 45,08737	1 60744,62604 35,29799	9,89372,51519,0883 6,02390,1695	10,09986,16146 15,56165	31:48
52	78282,54077,69810 10,86135,37240	1 25807,34526 45,06757	1 60709,32805 35,27760	9,89366,49128,9188 6,02606,0479	10,09970,59981 15,56038	31:12
51	78271,67942,32570 10,86373,80156	1 25762,27769 45,04780	1 60674,05045 35,25722	9,89360,46522,8709 6,02821,9862	10,09955,03943 15,55913	30:36
50	78260,81568,52414 10,86612,19764	1 25717,22989 45,02803	1 60638,79323 35,23685	9,89354,43700,8847 6,03037,9845	10,09939,48030 15,55787	30: 0
49	78249,94956,32650 10,86850,56062	1 25672,20186 45,00828	1 60603,55638 35,21652	9,89348,40662,9002 6,03254,0428	10,09923,92243 15,55662	29:24
48	78239,08105,76588 10,87088,89049	1 25627,19358 44,98855	1 60568,33986 35,19618	9,89342,37408,8574 6,03470,1612	10,09908,36581 15,55538	28:48
47	78228,21016,87539 10,87327,18724	1 25582,20503 44,96883	1 60533,14368 35,17587	9,89336,33938,6962 6,03686,3395	10,09892,81043 15,55412	28:12
46	78217,33689,68815 10,87565,45087	1 25537,23620 44,94914	1 60497,96781 35,15557	9,89330,30252,3567 6,03902,5780	10,09877,25631 15,55288	27:36
45	78206,46124,23728 10,87803,68138	1 25492,28706 44,92944	1 60462,81224 35,13528	9,89324,26349,7787 6,04118,8766	10,09861,70343 15,55164	27: 0
44	78195,58320,55590 10,88041,87874	1 25447,35762 44,90978	1 60427,67696 35,11502	9,89318,22230,9021 6,04335,2355	10,09846,15179 15,55039	26:24
43	78184,70278,67716 10,88280,04297	1 25402,44784 44,89012	1 60392,56194 35,09477	9,89312,17895,6666 6,04551,6545	10,09830,60140 15,54916	25:48
42	78173,81998,63419 10,88518,17405	1 25357,55772 44,87048	1 60357,46717 35,07453	9,89306,13344,0121 6,04768,1338	10,09815,05224 15,54792	25:12
41	78162,93480,46014 10,88756,27195	1 25312,68724 44,85086	1 60322,39264 35,05430	9,89300,08575,8783 6,04984,6734	10,09799,50432 15,54668	24:36
40	78152,04724,18819 10,88994,33671	1 25267,83638 44,83125	1 60287,33834 35,03410	9,89294,03591,2049 6,05201,2734	10,09783,95764 15,54545	24: 0
39	78141,15729,85148 10,89232,36828	1 25223,00513 44,81166	1 60252,30424 35,01391	9,89287,98389,9315 6,05417,9336	10,09768,41219 15,54422	23:24
38	78130,26497,48320 10,89470,36668	1 25178,19347 44,79208	1 60217,29033 34,99374	9,89281,92971,9979 6,05634,6544	10,09752,86797 15,54299	22:48
37	78119,37027,11652 10,89708,33189	1 25133,40139 44,77253	1 60182,29659 34,97357	9,89275,87337,3435 6,05851,4356	10,09737,32498 15,54177	22:12
36	78108,47318,78463 10,89946,26390	1 25088,62886 44,75297	1 60147,32302 34,95343	9,89269,81485,9079 6,06068,2773	10,09721,78321 15,54054	21:36
35	78097,57372,52073 10,90184,16272	1 25043,87589 44,73345	1 60112,36959 34,93330	9,89263,75417,6306 6,06285,1794	10,09706,24267 15,53932	21: 0
34	78086,67188,35801 10,90422,02832	1 24999,14244 44,71394	1 60077,43629 34,91318	9,89257,69132,4512 6,06502,1423	10,09690,70335 15,53810	20:24

GRAD. 51.

38. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	62483,39382,41744	80029,17639	1 28080,71312	9,79576,46104,8324	9,90324,83475	40:12
	13,62584,03718	28,63555	17,89442	9,46968,7518	15,53687	
68	62497,01966,45462	80057,81194	1 28098,60754	9,79585,93073,5842	9,90340,37162	40:48
	13,62393,66037	28,64356	17,90332	9,46630,0477	15,53567	
69	62510,64360,11499	80086,45550	1 28116,51086	9,79595,39703,6319	9,90355,90729	41:24
	13,62203,24206	28,65156	17,91222	9,46291,4913	15,53445	
70	62524,26563,35705	80115,10706	1 28134,42308	9,79604,85995,1232	9,90371,44174	42: 0
	13,62012,78226	28,65957	17,92114	9,45953,0823	15,53323	
71	62537,88576,13931	80143,76663	1 28152,34422	9,79614,31948,2055	9,90386,97497	42:36
	13,61822,28096	28,66759	17,93006	9,45614,8207	15,53203	
72	62551,50398,42027	80172,43422	1 28170,27428	9,79623,77563,0262	9,90402,50700	43:12
	13,61631,73819	28,67562	17,93898	9,45276,7064	15,53082	
73	62565,12030,15846	80201,10984	1 28188,21326	9,79633,22839,7326	9,90418,03782	43:48
	13,61441,15393	28,68365	17,94791	9,44938,7393	15,52961	
74	62578,73471,31239	80229,79349	1 28206,16117	9,79642,67778,4719	9,90433,56743	44:24
	13,61250,52820	28,69168	17,95685	9,44600,9192	15,52841	
75	62592,34721,84059	80258,48517	1 28224,11802	9,79652,12379,3911	9,90449,09584	45: 0
	13,61059,86101	28,69972	17,96578	9,44263,2459	15,52721	
76	62605,95781,70160	80287,18489	1 28242,08380	9,79661,56642,6370	9,90464,62305	45:36
	13,60869,15236	28,70776	17,97472	9,43925,7196	15,52601	
77	62619,56650,85396	80315,89265	1 28260,05852	9,79671,00568,3566	9,90480,14906	46:12
	13,60678,40225	28,71581	17,98367	9,43588,3399	15,52481	
78	62633,17329,25621	80344,60846	1 28278,04219	9,79680,44156,6965	9,90495,67387	46:48
	13,60487,61070	28,72387	17,99263	9,43251,1067	15,52361	
79	62646,77816,86691	80373,33233	1 28296,03482	9,79689,87407,8032	9,90511,19748	47:24
	13,60296,77770	28,73193	18,00158	9,42914,0201	15,52243	
80	62660,38113,64461	80402,06426	1 28314,03640	9,79699,30321,8233	9,90526,71991	48: 0
	13,60105,90326	28,73999	18,01054	9,42577,0797	15,52123	
81	62673,98219,54787	80430,80425	1 28332,04694	9,79708,72898,9030	9,90542,24114	48:36
	13,59914,98739	28,74807	18,01951	9,42240,2857	15,52004	
82	62687,58134,53526	80459,55232	1 28350,06645	9,79718,15139,1887	9,90557,76118	49:12
	13,59724,03010	28,75613	18,02849	9,41903,6376	15,51885	
83	62701,17858,56536	80488,30845	1 28368,09494	9,79727,57042,8263	9,90573,28003	49:48
	13,59533,03139	28,76422	18,03746	9,41567,1357	15,51767	
84	62714,77391,59675	80517,07267	1 28386,13240	9,79736,98609,9620	9,90588,79770	50:24
	13,59341,99127	28,77231	18,04644	9,41230,7795	15,51649	
85	62728,36733,58802	80545,84498	1 28404,17884	9,79746,39840,7415	9,90604,31419	51: 0
	13,59150,90973	28,78039	18,05542	9,40894,5692	15,51530	
86	62741,95884,49775	80574,62537	1 28422,23426	9,79755,80735,3107	9,90619,82949	51:36
	13,58959,78679	28,78849	18,06442	9,40558,5044	15,51413	
87	62755,54844,28454	80603,41386	1 28440,29868	9,79765,21293,8151	9,90635,34362	52:12
	13,58768,62246	28,79659	18,07342	9,40222,5853	15,51295	
88	62769,13612,90700	80632,21045	1 28458,37210	9,79774,61516,4004	9,90650,85657	52:48
	13,58577,41675	28,80470	18,08242	9,39886,8115	15,51178	
89	62782,72190,32375	80661,01515	1 28476,45452	9,79784,01403,2119	9,90666,36835	53:24
	13,58386,16963	28,81281	18,09142	9,39551,1831	15,51060	
90	62796,30576,49338	80689,82796	1 28494,54594	9,79793,40954,3950	9,90681,87895	54: 0
	13,58194,88115	28,82092	18,10043	9,39215,6998	15,50943	
91	62809,88771,37453	80718,64888	1 28512,64637	9,79802,80170,0948	9,90697,38838	54:36
	13,58003,55129	28,82905	18,10945	9,38880,3616	15,50827	
92	62823,46774,92582	80747,47793	1 28530,75582	9,79812,19050,4564	9,90712,89665	55:12
	13,57812,18006	28,83718	18,11847	9,38545,1683	15,50709	
93	62837,04587,10588	80776,31511	1 28548,87429	9,79821,57595,6247	9,90728,40374	55:48
	13,57620,76747	28,84530	18,12750	9,38210,1200	15,50594	
94	62850,62207,87335	80805,16041	1 28567,00179	9,79830,95805,7447	9,90743,90968	56:24
	13,57429,31354	28,85345	18,13653	9,37875,2163	15,50477	
95	62864,19637,18689	80834,01386	1 28585,13832	9,79840,33680,9610	9,90759,41445	57: 0
	13,57237,81824	28,86158	18,14556	9,37540,4573	15,50361	
96	62877,76875,00513	80862,87544	1 28603,28388	9,79849,71221,4183	9,90774,91806	57:36
	13,57046,28160	28,86974	18,15461	9,37205,8427	15,50245	
97	62891,33921,28673	80891,74518	1 28621,43849	9,79859,08427,2610	9,90790,42051	58:12
	13,56854,70363	28,87789	18,16364	9,36871,3725	15,50130	
98	62904,90775,99036	80920,62307	1 28639,60213	9,79868,45298,6335	9,90805,92181	58:48
	13,56663,08432	28,88604	18,17270	9,36537,0467	15,50014	
99	62918,47439,07468	80949,50911	1 28657,77483	9,79877,81835,6802	9,90821,42195	59:24
	13,56471,42369	28,89421	18,18176	9,36202,8649	15,49899	
100	62932,03910,49837	80978,40332	1 28675,95659	9,79887,18038,5451	9,90836,92094	60: 0
	13,56279,72174	28,90238	18,19081	9,35868,8273	15,49784	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	78075,76766,32969 10,90659,86071	1 24954,42850 44,69443	1 60042,52311 34,89309	9,89251,62630,3089 6,06719,1656	10,09675,16525 15,53687	19:48
32	78064,86106,46898 10,90897,65987	1 24909,73407 44,67495	1 60007,63002 34,87300	9,89245,55911,1433 6,06936,2497	10,09659,62838 15,53567	19:12
31	78053,95208,80911 10,91135,42581	1 24865,05912 44,65548	1 59972,75702 34,85293	9,89239,48974,8936 6,07153,3943	10,09644,09271 15,53445	18:36
30	78043,04073,38330 10,91373,15851	1 24820,40364 44,63604	1 59937,90409 34,83288	9,89233,41821,4993 6,07370,5998	10,09628,55826 15,53323	18: 0
29	78032,12700,22479 10,91610,85795	1 24775,76760 44,61659	1 59903,07121 34,81285	9,89227,34450,8995 6,07587,8660	10,09613,02503 15,53203	17:24
28	78021,21089,36684 10,91848,52416	1 24731,15101 44,59717	1 59868,25836 34,79282	9,89221,26863,0335 6,07805,1930	10,09597,49300 15,53082	16:48
27	78010,29240,84268 10,92086,15709	1 24686,55384 44,57777	1 59833,46554 34,77281	9,89215,19057,8405 6,08022,5808	10,09581,96218 15,52961	16:12
26	77999,37154,68559 10,92323,75677	1 24641,97607 44,55837	1 59798,69273 34,75282	9,89209,11035,2597 6,08240,0296	10,09566,43257 15,52841	15:36
25	77988,44830,92882 10,92561,32317	1 24597,41770 44,53900	1 59763,93991 34,73284	9,89203,02795,2301 6,08457,5392	10,09550,90416 15,52721	15: 0
24	77977,52269,60565 10,92798,85628	1 24552,87870 44,51964	1 59729,20707 34,71288	9,89196,94337,6909 6,08675,1097	10,09535,37695 15,52601	14:24
23	77966,59470,74937 10,93036,35611	1 24508,35906 44,50030	1 59694,49419 34,69293	9,89190,85662,5812 6,08892,7414	10,09519,85094 15,52481	13:48
22	77955,66434,39326 10,93273,82265	1 24463,85876 44,48097	1 59659,80126 34,67300	9,89184,76769,8398 6,09110,4340	10,09504,32613 15,52361	13:12
21	77944,73160,57061 10,93511,25587	1 24419,37779 44,46165	1 59625,12826 34,65309	9,89178,67659,4058 6,09328,1876	10,09488,80252 15,52243	12:36
20	77933,79649,31474 10,93748,65579	1 24374,91614 44,44235	1 59590,47517 34,63318	9,89172,58331,2182 6,09546,0025	10,09473,28009 15,52123	12: 0
19	77922,85900,65895 10,93986,02240	1 24330,47379 44,42307	1 59555,84199 34,61330	9,89166,48785,2157 6,09763,8784	10,09457,75886 15,52004	11:24
18	77911,91914,63655 10,94223,35567	1 24286,05072 44,40380	1 59521,22869 34,59342	9,89160,39021,3373 6,09981,8155	10,09442,23882 15,51885	10:48
17	77900,97691,28088 10,94460,65562	1 24241,64692 44,38455	1 59486,63527 34,57357	9,89154,29039,5218 6,10199,8139	10,09426,71997 15,51767	10:12
16	77890,03230,62526 10,94697,92222	1 24197,26237 44,36531	1 59452,06170 34,55373	9,89148,18839,7079 6,10417,8736	10,09411,20230 15,51649	9:36
15	77879,08532,70304 10,94935,15548	1 24152,89706 44,34609	1 59417,50797 34,53390	9,89142,08421,8343 6,10635,9945	10,09395,68581 15,51530	9: 0
14	77868,13597,54756 10,95172,35539	1 24108,55097 44,32688	1 59382,97407 34,51408	9,89135,97785,8398 6,10854,1768	10,09380,17051 15,51413	8:24
13	77857,18425,19217 10,95409,52194	1 24064,22409 44,30768	1 59348,45999 34,49429	9,89129,86931,6630 6,11072,4204	10,09364,65638 15,51295	7:48
12	77846,23015,67023 10,95646,65511	1 24019,91641 44,28851	1 59313,96570 34,47451	9,89123,75859,2426 6,11290,7256	10,09349,14343 15,51178	7:12
11	77835,27369,01512 10,95883,75491	1 23975,62790 44,26935	1 59279,49119 34,45475	9,89117,64568,5170 6,11509,0921	10,09333,63165 15,51060	6:36
10	77824,31485,26021 10,96120,82133	1 23931,35855 44,25020	1 59245,03644 34,43499	9,89111,53059,4249 6,11727,5202	10,09318,12105 15,50943	6: 0
9	77813,35364,43888 10,96357,85436	1 23887,10835 44,23107	1 59210,60145 34,41525	9,89105,41331,9047 6,11946,0098	10,09302,61162 15,50827	5:24
8	77802,39006,58452 10,96594,85400	1 23842,87728 44,21196	1 59176,18620 34,39554	9,89099,29385,8949 6,12164,5610	10,09287,10335 15,50709	4:48
7	77791,42411,73052 10,96831,82022	1 23798,66532 44,19285	1 59141,79066 34,37582	9,89093,17221,3339 6,12383,1738	10,09271,59626 15,50594	4:12
6	77780,45579,91030 10,97068,75304	1 23754,47247 44,17376	1 59107,41484 34,35613	9,89087,04838,1601 6,12601,8483	10,09256,09032 15,50477	3:36
5	77769,48511,15726 10,97305,65244	1 23710,29871 44,15470	1 59073,05871 34,33646	9,89080,92236,3118 6,12820,5844	10,09240,58555 15,50361	3: 0
4	77758,51205,50482 10,97542,51841	1 23666,14401 44,13563	1 59038,72225 34,31679	9,89074,79415,7274 6,13039,3824	10,09225,08194 15,50245	2:24
3	77747,53662,98641 10,97779,35095	1 23622,00838 44,11660	1 59004,40546 34,29715	9,89068,66376,3450 6,13258,2420	10,09209,57949 15,50130	1:48
2	77736,55883,63546 10,98016,15005	1 23577,89178 44,09757	1 58970,10831 34,27751	9,89062,53118,1030 6,13477,1636	10,09194,07819 15,50014	1:12
1	77725,57867,48541 10,98252,91570	1 23533,79421 44,07856	1 58935,83080 34,25789	9,89056,39640,9394 6,13696,1469	10,09178,57805 15,49899	0:36
0	77714,59614,56971 10,98489,64790	1 23489,71565 44,05956	1 58901,57291 34,23829	9,89050,25944,7925 6,13915,1922	10,09163,07906 15,49784	0: 0

GRAD. 51.

39. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	62932,03910,49837	80978,40332	1 28675,95659	9,79887,18038,5451	9,90836,92094	0: 0
	13,56279,72174	28,90238	18,19081	9,35868,8273	15,49784	
1	62945,60190,22011	81007,30570	1 28694,14740	9,79896,53907,3724	9,90852,41878	0:36
	13,56087,97847	28,91055	18,19989	9,35534,9335	15,49669	
2	62959,16278,19858	81036,21625	1 28712,34729	9,79905,89442,3059	9,90867,91547	1:12
	13,55896,19389	28,91873	18,20895	9,35201,1837	15,49555	
3	62972,72174,39247	81065,13498	1 28730,55624	9,79915,24643,4896	9,90883,41102	1:48
	13,55704,36802	28,92691	18,21802	9,34867,5774	15,49440	
4	62986,27878,76049	81094,06189	1 28748,77426	9,79924,59511,0670	9,90898,90542	2:24
	13,55512,50083	28,93511	18,22711	9,34534,1147	15,49326	
5	62999,83391,26132	81122,99700	1 28767,00137	9,79933,94045,1817	9,90914,39868	3: 0
	13,55320,59237	28,94330	18,23619	9,34200,7957	15,49212	
6	63013,38711,85369	81151,94030	1 28785,23756	9,79943,28245,9774	9,90929,89080	3:36
	13,55128,64262	28,95150	18,24528	9,33867,6199	15,49099	
7	63026,93840,49631	81180,89180	1 28803,48284	9,79952,62113,5973	9,90945,38179	4:12
	13,54936,65158	28,95970	18,25438	9,33534,5873	15,48984	
8	63040,48777,14789	81209,85150	1 28821,73722	9,79961,95648,1846	9,90960,87163	4:48
	13,54744,61927	28,96791	18,26348	9,33201,6980	15,48872	
9	63054,03521,76716	81238,81941	1 28840,00070	9,79971,28849,8826	9,90976,36035	5:24
	13,54552,54570	28,97614	18,27258	9,32868,9517	15,48758	
10	63067,58074,31286	81267,79555	1 28858,27328	9,79980,61718,8343	9,90991,84793	6: 0
	13,54360,43087	28,98435	18,28169	9,32536,3482	15,48646	
11	63081,12434,74373	81296,77990	1 28876,55497	9,79989,94255,1825	9,91007,33439	6:36
	13,54168,27477	28,99258	18,29081	9,32203,8876	15,48532	
12	63094,66603,01850	81325,77248	1 28894,84578	9,79999,26459,0701	9,91022,81971	7:12
	13,53976,07742	29,00080	18,29993	9,31871,5697	15,48420	
13	63108,20579,09592	81354,77328	1 28913,14571	9,80008,58330,6398	9,91038,30391	7:48
	13,53783,83884	29,00905	18,30905	9,31539,3943	15,48308	
14	63121,74362,93476	81383,78233	1 28931,45476	9,80017,89870,0341	9,91053,78699	8:24
	13,53591,55902	29,01729	18,31818	9,31207,3615	15,48196	
15	63135,27954,49378	81412,79962	1 28949,77294	9,80027,21077,3956	9,91069,26895	9: 0
	13,53399,23795	29,02554	18,32732	9,30875,4709	15,48084	
16	63148,81353,73173	81441,82516	1 28968,10026	9,80036,51952,8665	9,91084,74979	9:36
	13,53206,87567	29,03378	18,33646	9,30543,7227	15,47972	
17	63162,34560,60740	81470,85894	1 28986,43672	9,80045,82496,5892	9,91100,22951	10:12
	13,53014,47216	29,04205	18,34560	9,30212,1165	15,47860	
18	63175,87575,07956	81499,90099	1 29004,78232	9,80055,12708,7057	9,91115,70811	10:48
	13,52822,02744	29,05031	18,35475	9,29880,6525	15,47750	
19	63189,40397,10700	81528,95130	1 29023,13707	9,80064,42589,3582	9,91131,18561	11:24
	13,52629,54151	29,05858	18,36391	9,29549,3302	15,47638	
20	63202,93026,64851	81558,00988	1 29041,50098	9,80073,72138,6884	9,91146,66199	12: 0
	13,52437,01437	29,06685	18,37307	9,29218,1498	15,47527	
21	63216,45463,66288	81587,07673	1 29059,87405	9,80083,01356,8382	9,91162,13726	12:36
	13,52244,44604	29,07513	18,38223	9,28887,1111	15,47417	
22	63229,97708,10892	81616,15186	1 29078,25628	9,80092,30243,9493	9,91177,61143	13:12
	13,52051,83652	29,08342	18,39141	9,28556,2140	15,47306	
23	63243,49759,94544	81645,23528	1 29096,64769	9,80101,58800,1633	9,91193,08449	13:48
	13,51859,18580	29,09171	18,40058	9,28225,4583	15,47196	
24	63257,01619,13124	81674,32699	1 29115,04827	9,80110,87025,6216	9,91208,55645	14:24
	13,51666,49392	29,10000	18,40976	9,27894,8440	15,47086	
25	63270,53285,62516	81703,42699	1 29133,45803	9,80120,14920,4656	9,91224,02731	15: 0
	13,51473,76085	29,10830	18,41894	9,27564,3709	15,46976	
26	63284,04759,38601	81732,53529	1 29151,87697	9,80129,42484,8365	9,91239,49707	15:36
	13,51280,98662	29,11661	18,42814	9,27234,0389	15,46866	
27	63297,56040,37263	81761,65190	1 29170,30511	9,80138,69718,8754	9,91254,96573	16:12
	13,51088,17123	29,12492	18,43733	9,26903,8481	15,46757	
28	63311,07128,54386	81790,77682	1 29188,74244	9,80147,96622,7235	9,91270,43330	16:48
	13,50895,31467	29,13323	18,44653	9,26573,7981	15,46647	
29	63324,58023,85853	81819,91005	1 29207,18897	9,80157,23196,5216	9,91285,89977	17:24
	13,50702,41697	29,14156	18,45573	9,26243,8889	15,46539	
30	63338,08726,27550	81849,05161	1 29225,64470	9,80166,49440,4105	9,91301,36516	18: 0
	13,50509,47813	29,14988	18,46495	9,25914,1203	15,46429	
31	63351,59235,75363	81878,20149	1 29244,10965	9,80175,75354,5308	9,91316,82945	18:36
	13,50316,49814	29,15822	18,47417	9,25584,4925	15,46321	
32	63365,09552,25177	81907,35971	1 29262,58382	9,80185,00939,0233	9,91332,29266	19:12
	13,50123,47702	29,16655	18,48338	9,25255,0050	15,46213	
33	63378,59675,72879	81936,52626	1 29281,06720	9,80194,26194,0283	9,91347,75479	19:48
	13,49930,41477	29,17490	18,49261	9,24925,6579	15,46104	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	77714,59614,56971 10,98489,64790	1 23489,71565 44,05956	1 58901,57291 34,23829	9,89050,25944,7925 6,13915,1922	10,09163,07906 15,49784	60: 0
99	77703,61124,92181 10,98726,34663	1 23445,65609 44,04058	1 58867,33462 34,21871	9,89044,12029,6003 6,14134,2994	10,09147,58122 15,49669	59:24
98	77692,62398,57518 10,98963,01190	1 23401,61551 44,02161	1 58833,11591 34,19912	9,89037,97895,3009 6,14353,4685	10,09132,08453 15,49555	58:48
97	77681,63435,56328 10,99199,64369	1 23357,59390 44,00266	1 58798,91679 34,17957	9,89031,83541,8324 6,14572,6998	10,09116,58898 15,49440	58:12
96	77670,64235,91959 10,99436,24199	1 23313,59124 43,98373	1 58764,73722 34,16003	9,89025,68969,1326 6,14791,9929	10,09101,09458 15,49326	57:36
95	77659,64799,67760 10,99672,80681	1 23269,60751 43,96480	1 58730,57719 34,14049	9,89019,54177,1397 6,15011,3484	10,09085,60132 15,49212	57: 0
94	77648,65126,87079 10,99909,33813	1 23225,64271 43,94590	1 58696,43670 34,12098	9,89013,39165,7913 6,15230,7658	10,09070,10920 15,49099	56:24
93	77637,65217,53266 11,00145,83594	1 23181,69681 43,92700	1 58662,31572 34,10148	9,89007,23935,0255 6,15450,2455	10,09054,61821 15,48984	55:48
92	77626,65071,69672 11,00382,30024	1 23137,76981 43,90813	1 58628,21424 34,08199	9,89001,08484,7800 6,15669,7873	10,09039,12837 15,48872	55:12
91	77615,64689,39648 11,00618,73102	1 23093,86168 43,88927	1 58594,13225 34,06253	9,88994,92814,9927 6,15889,3915	10,09023,63965 15,48758	54:36
90	77604,64070,66546 11,00855,12827	1 23049,97241 43,87041	1 58560,06972 34,04306	9,88988,76925,6012 6,16109,0578	10,09008,15207 15,48646	54: 0
89	77593,63215,53719 11,01091,49200	1 23006,10200 43,85159	1 58526,02666 34,02362	9,88982,60816,5434 6,16328,7867	10,08992,66561 15,48532	53:24
88	77582,62124,04519 11,01327,82217	1 22962,25041 43,83277	1 58492,00304 34,00420	9,88976,44487,7567 6,16548,5777	10,08977,18029 15,48420	52:48
87	77571,60796,22302 11,01564,11880	1 22918,41764 43,81396	1 58457,99884 33,98478	9,88970,27939,1790 6,16768,4313	10,08961,69609 15,48308	52:12
86	77560,59232,10422 11,01800,38188	1 22874,60368 43,79517	1 58424,01406 33,96539	9,88964,11170,7477 6,16988,3473	10,08946,21301 15,48196	51:36
85	77549,57431,72234 11,02036,61138	1 22830,80851 43,77641	1 58390,04867 33,94600	9,88957,94182,4004 6,17208,3258	10,08930,73105 15,48084	51: 0
84	77538,55395,11096 11,02272,80733	1 22787,03210 43,75764	1 58356,10267 33,92663	9,88951,76974,0746 6,17428,3668	10,08915,25021 15,47972	50:24
83	77527,53122,30363 11,02508,96970	1 22743,27446 43,73890	1 58322,17604 33,90728	9,88945,59545,7078 6,17648,4704	10,08899,77049 15,47860	49:48
82	77516,50613,33393 11,02745,09847	1 22699,53556 43,72017	1 58288,26876 33,88794	9,88939,41897,2374 6,17868,6366	10,08884,29189 15,47750	49:12
81	77505,47868,23546 11,02981,19366	1 22655,81539 43,70145	1 58254,38082 33,86861	9,88933,24028,6008 6,18088,8655	10,08868,81439 15,47638	48:36
80	77494,44887,04180 11,03217,25526	1 22612,11394 43,68276	1 58220,51221 33,84930	9,88927,05939,7353 6,18309,1571	10,08853,33801 15,47527	48: 0
79	77483,41669,78654 11,03453,28323	1 22568,43118 43,66407	1 58186,66291 33,83000	9,88920,87630,5782 6,18529,5113	10,08837,86274 15,47417	47:24
78	77472,38216,50331 11,03689,27761	1 22524,76711 43,64539	1 58152,83291 33,81072	9,88914,69101,0669 6,18749,9284	10,08822,38857 15,47306	46:48
77	77461,34527,22570 11,03925,23836	1 22481,12172 43,62675	1 58119,02219 33,79146	9,88908,50351,1385 6,18970,4084	10,08806,91551 15,47196	46:12
76	77450,30601,98734 11,04161,16548	1 22437,49497 43,60810	1 58085,23073 33,77220	9,88902,31380,7301 6,19190,9510	10,08791,44355 15,47086	45:36
75	77439,26440,82186 11,04397,05897	1 22393,88687 43,58947	1 58051,45853 33,75296	9,88896,12189,7791 6,19411,5567	10,08775,97269 15,46976	45: 0
74	77428,22043,76289 11,04632,91882	1 22350,29740 43,57086	1 58017,70557 33,73374	9,88889,92778,2224 6,19632,2253	10,08760,50293 15,46866	44:24
73	77417,17410,84407 11,04868,74502	1 22306,72654 43,55227	1 57983,97183 33,71452	9,88883,73145,9971 6,19852,9568	10,08745,03427 15,46757	43:48
72	77406,12542,09905 11,05104,53755	1 22263,17427 43,53368	1 57950,25731 33,69533	9,88877,53293,0403 6,20073,7514	10,08729,56670 15,46647	43:12
71	77395,07437,56150 11,05340,29644	1 22219,64059 43,51511	1 57916,56198 33,67615	9,88871,33219,2889 6,20294,6091	10,08714,10023 15,46539	42:36
70	77384,02097,26506 11,05576,02164	1 22176,12548 43,49655	1 57882,88583 33,65698	9,88865,12924,6798 6,20515,5298	10,08698,63484 15,46429	42: 0
69	77372,96521,24342 11,05811,71317	1 22132,62893 43,47802	1 57849,22885 33,63783	9,88858,92409,1500 6,20736,5136	10,08683,17055 15,46321	41:24
68	77361,90709,53025 11,06047,37102	1 22089,15091 43,45949	1 57815,59102 33,61869	9,88852,71672,6364 6,20957,5607	10,08667,70734 15,46213	40:48
67	77350,84662,15923 11,06282,99517	1 22045,69142 43,44099	1 57781,97233 33,59956	9,88846,50715,0757 6,21178,6709	10,08652,24521 15,46104	40:12

GRAD. 50.

39. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	63378,59675,72879 13,49930,41477	81936,52626 29,17490	1 29281,06720 18,49261	9,80194,26194,0283 9,24925,6579	9,91347,75479 15,46104	19:48
34	63392,09606,14356 13,49737,31141	81965,70116 29,18325	1 29299,55981 18,50184	9,80203,51119,6862 9,24596,4511	9,91363,21583 15,45997	20:24
35	63405,59343,45497 13,49544,16693	81994,88441 29,19160	1 29318,06165 18,51108	9,80212,75716,1373 9,24267,3844	9,91378,67580 15,45888	21: 0
36	63419,08887,62190 13,49350,98133	82024,07601 29,19996	1 29336,57273 18,52032	9,80221,99983,5217 9,23938,4578	9,91394,13468 15,45781	21:36
37	63432,58238,60323 13,49157,75464	82053,27597 29,20832	1 29355,09305 18,52956	9,80231,23921,9795 9,23609,6710	9,91409,59249 15,45673	22:12
38	63446,07396,35787 13,48964,48684	82082,48429 29,21669	1 29373,62261 18,53882	9,80240,47531,6505 9,23281,0242	9,91425,04922 15,45566	22:48
39	63459,56360,84471 13,48771,17797	82111,70098 29,22507	1 29392,16143 18,54807	9,80249,70812,6747 9,22952,5169	9,91440,50488 15,45460	23:24
40	63473,05132,02268 13,48577,82799	82140,92605 29,23345	1 29410,70950 18,55733	9,80258,93765,1916 9,22624,1493	9,91455,95948 15,45352	24: 0
41	63486,53709,85067 13,48384,43694	82170,15950 29,24184	1 29429,26683 18,56660	9,80268,16389,3409 9,22295,9212	9,91471,41300 15,45246	24:36
42	63500,02094,28761 13,48191,00481	82199,40134 29,25023	1 29447,83343 18,57588	9,80277,38685,2621 9,21967,8325	9,91486,86546 15,45139	25:12
43	63513,50285,29242 13,47997,53162	82228,65157 29,25862	1 29466,40931 18,58515	9,80286,60653,0946 9,21639,8830	9,91502,31685 15,45033	25:48
44	63526,98282,82404 13,47804,01737	82257,91019 29,26703	1 29484,99446 18,59443	9,80295,82292,9776 9,21312,0727	9,91517,76718 15,44927	26:24
45	63540,46086,84141 13,47610,46205	82287,17722 29,27544	1 29503,58889 18,60372	9,80305,03605,0503 9,20984,4014	9,91533,21645 15,44822	27: 0
46	63553,93697,30346 13,47416,86570	82316,45266 29,28384	1 29522,19261 18,61301	9,80314,24589,4517 9,20656,8692	9,91548,66467 15,44716	27:36
47	63567,41114,16916 13,47223,22828	82345,73650 29,29227	1 29540,80562 18,62231	9,80323,45246,3209 9,20329,4757	9,91564,11183 15,44610	28:12
48	63580,88337,39744 13,47029,54984	82375,02877 29,30069	1 29559,42793 18,63161	9,80332,65575,7966 9,20002,2209	9,91579,55793 15,44505	28:48
49	63594,35366,94728 13,46835,83036	82404,32946 29,30912	1 29578,05954 18,64092	9,80341,85578,0175 9,19675,1048	9,91595,00298 15,44400	29:24
50	63607,82202,77764 13,46642,06985	82433,63858 29,31756	1 29596,70046 18,65023	9,80351,05253,1223 9,19348,1273	9,91610,44698 15,44296	30: 0
51	63621,28844,84749 13,46448,26833	82462,95614 29,32599	1 29615,35069 18,65955	9,80360,24601,2496 9,19021,2880	9,91625,88994 15,44190	30:36
52	63634,75293,11582 13,46254,42579	82492,28213 29,33444	1 29634,01024 18,66888	9,80369,43622,5376 9,18694,5871	9,91641,33184 15,44087	31:12
53	63648,21547,54161 13,46060,54223	82521,61657 29,34290	1 29652,67912 18,67820	9,80378,62317,1247 9,18368,0244	9,91656,77271 15,43982	31:48
54	63661,67608,08384 13,45866,61768	82550,95947 29,35134	1 29671,35732 18,68753	9,80387,80685,1491 9,18041,5998	9,91672,21253 15,43878	32:24
55	63675,13474,70152 13,45672,65213	82580,31081 29,35981	1 29690,04485 18,69688	9,80396,98726,7489 9,17715,3131	9,91687,65131 15,43775	33: 0
56	63688,59147,35365 13,45478,64558	82609,67062 29,36828	1 29708,74173 18,70622	9,80406,16442,0620 9,17389,1643	9,91703,08906 15,43671	33:36
57	63702,04625,99923 13,45284,59806	82639,03890 29,37675	1 29727,44795 18,71556	9,80415,33831,2263 9,17063,1533	9,91718,52577 15,43567	34:12
58	63715,49910,59729 13,45090,50954	82668,41565 29,38523	1 29746,16351 18,72493	9,80424,50894,3796 9,16737,2799	9,91733,96144 15,43465	34:48
59	63728,95001,10683 13,44896,38007	82697,80088 29,39372	1 29764,88844 18,73428	9,80433,67631,6595 9,16411,5441	9,91749,39609 15,43361	35:24
60	63742,39897,48690 13,44702,20961	82727,19460 29,40220	1 29783,62272 18,74364	9,80442,84043,2036 9,16085,9457	9,91764,82970 15,43259	36: 0
61	63755,84599,69651 13,44507,99820	82756,59680 29,41070	1 29802,36636 18,75302	9,80452,00129,1493 9,15760,4847	9,91780,26229 15,43156	36:36
62	63769,29107,69471 13,44313,74583	82786,00750 29,41920	1 29821,11938 18,76239	9,80461,15889,6340 9,15435,1608	9,91795,69385 15,43053	37:12
63	63782,73421,44054 13,44119,45251	82815,42670 29,42770	1 29839,88177 18,77177	9,80470,31324,7948 9,15109,9741	9,91811,12438 15,42952	37:48
64	63796,17540,89305 13,43925,11825	82844,85440 29,43621	1 29858,65354 18,78116	9,80479,46434,7689 9,14784,9244	9,91826,55390 15,42850	38:24
65	63809,61466,01130 13,43730,74305	82874,29061 29,44474	1 29877,43470 18,79055	9,80488,61219,6933 9,14460,0116	9,91841,98240 15,42747	39: 0
66	63823,05196,75435 13,43536,32692	82903,73535 29,45325	1 29896,22525 18,79994	9,80497,75679,7049 9,14135,2356	9,91857,40987 15,42647	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	77350,84662,15923 11,06282,99517	1 22045,69142 43,44099	1 57781,97233 33,59956	9,88846,50715,0757 6,21178,6709	10,08652,24521 15,46104	40:12
66	77339,78379,16406 11,06518,58562	1 22002,25043 43,42248	1 57748,37277 33,58046	9,88840,29536,4048 6,21399,8445	10,08636,78417 15,45997	39:36
65	77328,71860,57844 11,06754,14237	1 21958,82795 43,40401	1 57714,79231 33,56136	9,88834,08136,5603 6,21621,0813	10,08621,32420 15,45888	39: 0
64	77317,65106,43607 11,06989,66540	1 21915,42394 43,38553	1 57681,23095 33,54227	9,88827,86515,4790 6,21842,3815	10,08605,86532 15,45781	38:24
63	77306,58116,77067 11,07225,15471	1 21872,03841 43,36709	1 57647,68868 33,52321	9,88821,64673,0975 6,22063,7450	10,08590,40751 15,45673	37:48
62	77295,50891,61596 11,07460,61030	1 21828,67132 43,34864	1 57614,16547 33,50416	9,88815,42609,3525 6,22285,1720	10,08574,95078 15,45566	37:12
61	77284,43431,00566 11,07696,03215	1 21785,32268 43,33022	1 57580,66131 33,48511	9,88809,20324,1805 6,22506,6625	10,08559,49512 15,45460	36:36
60	77273,35734,97351 11,07931,42025	1 21741,99246 43,31182	1 57547,17620 33,46610	9,88802,97817,5180 6,22728,2164	10,08544,04052 15,45352	36: 0
59	77262,27803,55326 11,08166,77462	1 21698,68064 43,29341	1 57513,71010 33,44708	9,88796,75089,3016 6,22949,8339	10,08528,58700 15,45246	35:24
58	77251,19636,77864 11,08402,09521	1 21655,38723 43,27504	1 57480,26302 33,42808	9,88790,52139,4677 6,23171,5150	10,08513,13454 15,45139	34:48
57	77240,11234,68343 11,08637,38205	1 21612,11219 43,25667	1 57446,83494 33,40910	9,88784,28967,9527 6,23393,2596	10,08497,68315 15,45033	34:12
56	77229,02597,30138 11,08872,63511	1 21568,85552 43,23831	1 57413,42584 33,39014	9,88778,05574,6931 6,23615,0681	10,08482,23282 15,44927	33:36
55	77217,93724,66627 11,09107,85440	1 21525,61721 43,21998	1 57380,03570 33,37118	9,88771,81959,6250 6,23836,9401	10,08466,78355 15,44822	33: 0
54	77206,84616,81187 11,09343,03991	1 21482,39723 43,20166	1 57346,66452 33,35224	9,88765,58122,6849 6,24058,8760	10,08451,33533 15,44716	32:24
53	77195,75273,77196 11,09578,19161	1 21439,19557 43,18334	1 57313,31228 33,33331	9,88759,34063,8089 6,24280,8756	10,08435,88817 15,44610	31:48
52	77184,65695,58035 11,09813,30952	1 21396,01223 43,16505	1 57279,97897 33,31440	9,88753,09782,9333 6,24502,9390	10,08420,44207 15,44505	31:12
51	77173,55882,27083 11,10048,39363	1 21352,84718 43,14677	1 57246,66457 33,29550	9,88746,85279,9943 6,24725,0664	10,08404,99702 15,44400	30:36
50	77162,45833,87720 11,10283,44392	1 21309,70041 43,12850	1 57213,36907 33,27662	9,88740,60554,9279 6,24947,2576	10,08389,55302 15,44296	30: 0
49	77151,35550,43328 11,10518,46038	1 21266,57191 43,11025	1 57180,09245 33,25775	9,88734,35607,6703 6,25169,5128	10,08374,11006 15,44190	29:24
48	77140,25031,97290 11,10753,44302	1 21223,46166 43,09202	1 57146,83470 33,23889	9,88728,10438,1575 6,25391,8321	10,08358,66816 15,44087	28:48
47	77129,14278,52988 11,10988,39183	1 21180,36964 43,07378	1 57113,59581 33,22005	9,88721,85046,3254 6,25614,2152	10,08343,22729 15,43982	28:12
46	77118,03290,13805 11,11223,30679	1 21137,29586 43,05558	1 57080,37576 33,20123	9,88715,59432,1102 6,25836,6626	10,08327,78747 15,43878	27:36
45	77106,92066,83126 11,11458,18790	1 21094,24028 43,03738	1 57047,17453 33,18241	9,88709,33595,4476 6,26059,1740	10,08312,34869 15,43775	27: 0
44	77095,80608,64336 11,11693,03515	1 21051,20290 43,01920	1 57013,99212 33,16360	9,88703,07536,2736 6,26281,7496	10,08296,91094 15,43671	26:24
43	77084,68915,60821 11,11927,84855	1 21008,18370 43,00104	1 56980,82852 33,14483	9,88696,81254,5240 6,26504,3894	10,08281,47423 15,43567	25:48
42	77073,56987,75966 11,12162,62806	1 20965,18266 42,98288	1 56947,68369 33,12605	9,88690,54750,1346 6,26727,0934	10,08266,03856 15,43465	25:12
41	77062,44825,13160 11,12397,37371	1 20922,19978 42,96474	1 56914,55764 33,10729	9,88684,28023,0412 6,26949,8618	10,08250,60391 15,43361	24:36
40	77051,32427,75789 11,12632,08546	1 20879,23504 42,94661	1 56881,45035 33,08855	9,88678,01073,1794 6,27172,6945	10,08235,17030 15,43259	24: 0
39	77040,19795,67243 11,12866,76332	1 20836,28843 42,92851	1 56848,36180 33,06981	9,88671,73900,4849 6,27395,5914	10,08219,73771 15,43156	23:24
38	77029,06928,90911 11,13101,40729	1 20793,35992 42,91041	1 56815,29199 33,05110	9,88665,46504,8935 6,27618,5529	10,08204,30615 15,43053	22:48
37	77017,93827,50182 11,13336,01734	1 20750,44951 42,89232	1 56782,24089 33,03240	9,88659,18886,3406 6,27841,5788	10,08188,87562 15,42952	22:12
36	77006,80491,48448 11,13570,59348	1 20707,55719 42,87426	1 56749,20849 33,01371	9,88652,91044,7618 6,28064,6691	10,08173,44610 15,42850	21:36
35	76995,66920,89100 11,13805,13571	1 20664,68293 42,85620	1 56716,19478 32,99503	9,88646,62980,0927 6,28287,8241	10,08158,01760 15,42747	21: 0
34	76984,53115,75529 11,14039,64399	1 20621,82673 42,83816	1 56683,19975 32,97637	9,88640,34692,2686 6,28511,0436	10,08142,59013 15,42647	20:24

GRAD. 50.

39. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	63836,48733,08127	82933,18860	1 29915,02519	9,80506,89814,9405	9,91872,83634	40:12
	13,43341,86985	29,46178	18,80935	9,13810,5963	15,42545	
68	63849,92074,95112	82962,65038	1 29933,83454	9,80516,03625,5368	9,91888,26179	40:48
	13,43147,37188	29,47031	18,81875	9,13486,0936	15,42443	
69	63863,35222,32300	82992,12069	1 29952,65329	9,80525,17111,6304	9,91903,68622	41:24
	13,42952,83298	29,47886	18,82816	9,13161,7274	15,42343	
70	63876,78175,15598	83021,59955	1 29971,48145	9,80534,30273,3578	9,91919,10965	42: 0
	13,42758,25317	29,48740	18,83759	9,12837,4975	15,42242	
71	63890,20933,40915	83051,08695	1 29990,31904	9,80543,43110,8553	9,91934,53207	42:36
	13,42563,63247	29,49594	18,84700	9,12513,4039	15,42142	
72	63903,63497,04162	83080,58289	1 30009,16604	9,80552,55624,2592	9,91949,95349	43:12
	13,42368,97087	29,50451	18,85643	9,12189,4465	15,42041	
73	63917,05866,01249	83110,08740	1 30028,02247	9,80561,67813,7057	9,91965,37390	43:48
	13,42174,26837	29,51306	18,86586	9,11865,6251	15,41941	
74	63930,48040,28086	83139,60046	1 30046,88833	9,80570,79679,3308	9,91980,79331	44:24
	13,41979,52499	29,52163	18,87530	9,11541,9397	15,41841	
75	63943,90019,80585	83169,12209	1 30065,76363	9,80579,91221,2705	9,91996,21172	45: 0
	13,41784,74073	29,53020	18,88474	9,11218,3902	15,41741	
76	63957,31804,54658	83198,65229	1 30084,64837	9,80589,02439,6607	9,92011,62913	45:36
	13,41589,91560	29,53878	18,89420	9,10894,9764	15,41642	
77	63970,73394,46218	83228,19107	1 30103,54257	9,80598,13334,6371	9,92027,04555	46:12
	13,41395,04960	29,54736	18,90364	9,10571,6981	15,41543	
78	63984,14789,51178	83257,73843	1 30122,44621	9,80607,23906,3352	9,92042,46098	46:48
	13,41200,14275	29,55595	18,91311	9,10248,5555	15,41443	
79	63997,55989,65453	83287,29438	1 30141,35932	9,80616,34154,8907	9,92057,87541	47:24
	13,41005,19502	29,56454	18,92257	9,09925,5483	15,41344	
80	64010,96994,84955	83316,85892	1 30160,28189	9,80625,44080,4390	9,92073,28885	48: 0
	13,40810,20647	29,57315	18,93204	9,09602,6765	15,41246	
81	64024,37805,05602	83346,43207	1 30179,21393	9,80634,53683,1155	9,92088,70131	48:36
	13,40615,17705	29,58175	18,94151	9,09279,9397	15,41147	
82	64037,78420,23307	83376,01382	1 30198,15544	9,80643,62963,0552	9,92104,11278	49:12
	13,40420,10681	29,59035	18,95099	9,08957,3382	15,41049	
83	64051,18840,33988	83405,60417	1 30217,10643	9,80652,71920,3934	9,92119,52327	49:48
	13,40224,99574	29,59898	18,96048	9,08634,8716	15,40950	
84	64064,59065,33562	83435,20315	1 30236,06691	9,80661,80555,2650	9,92134,93277	50:24
	13,40029,84383	29,60760	18,96997	9,08312,5400	15,40853	
85	64077,99095,17945	83464,81075	1 30255,03688	9,80670,88867,8050	9,92150,34130	51: 0
	13,39834,65110	29,61622	18,97947	9,07990,3431	15,40755	
86	64091,38929,83055	83494,42697	1 30274,01635	9,80679,96858,1481	9,92165,74885	51:36
	13,39639,41758	29,62486	18,98896	9,07668,2810	15,40657	
87	64104,78569,24813	83524,05183	1 30293,00531	9,80689,04526,4291	9,92181,15542	52:12
	13,39444,14322	29,63350	18,99848	9,07346,3534	15,40560	
88	64118,18013,39135	83553,68533	1 30312,00379	9,80698,11872,7825	9,92196,56102	52:48
	13,39248,82809	29,64214	19,00798	9,07024,5603	15,40463	
89	64131,57262,21944	83583,32747	1 30331,01177	9,80707,18897,3428	9,92211,96565	53:24
	13,39053,47214	29,65079	19,01751	9,06702,9017	15,40366	
90	64144,96315,69158	83612,97826	1 30350,02928	9,80716,25600,2445	9,92227,36931	54: 0
	13,38858,07541	29,65944	19,02702	9,06381,3773	15,40269	
91	64158,35173,76699	83642,63770	1 30369,05630	9,80725,31981,6218	9,92242,77200	54:36
	13,38662,63789	29,66811	19,03656	9,06059,9870	15,40173	
92	64171,73836,40488	83672,30581	1 30388,09286	9,80734,38041,6088	9,92258,17373	55:12
	13,38467,15961	29,67677	19,04608	9,05738,7309	15,40076	
93	64185,12303,56449	83701,98258	1 30407,13894	9,80743,43780,3397	9,92273,57449	55:48
	13,38271,64053	29,68544	19,05563	9,05417,6087	15,39980	
94	64198,50575,20502	83731,66802	1 30426,19457	9,80752,49197,9484	9,92288,97429	56:24
	13,38076,08071	29,69413	19,06517	9,05096,6205	15,39884	
95	64211,88651,28573	83761,36215	1 30445,25974	9,80761,54294,5689	9,92304,37313	57: 0
	13,37880,48011	29,70280	19,07472	9,04775,7658	15,39789	
96	64225,26531,76584	83791,06495	1 30464,33446	9,80770,59070,3347	9,92319,77102	57:36
	13,37684,83877	29,71149	19,08427	9,04455,0450	15,39693	
97	64238,64216,60461	83820,77644	1 30483,41873	9,80779,63525,3797	9,92335,16795	58:12
	13,37489,15668	29,72019	19,09383	9,04134,4576	15,39597	
98	64252,01705,76129	83850,49663	1 30502,51256	9,80788,67659,8373	9,92350,56392	58:48
	13,37293,43384	29,72889	19,10340	9,03814,0038	15,39503	
99	64265,38999,19513	83880,22552	1 30521,61596	9,80797,71473,8411	9,92365,95895	59:24
	13,37097,67026	29,73760	19,11297	9,03493,6832	15,39407	
100	64278,76096,86539	83909,96312	1 30540,72893	9,80806,74967,5243	9,92381,35302	60: 0
	13,36901,86597	29,74630	19,12255	9,03173,4960	15,39313	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	76973,39076,11130	1 20578,98857	1 56650,22338	9,88634,06181,2250	10,08127,16366	19:48
	11,14274,11835	42,82014	32,95773	6,28734,3277	15,42545	
32	76962,24801,99295	1 20536,16843	1 56617,26565	9,88627,77446,8973	10,08111,73821	19:12
	11,14508,55877	42,80212	32,93909	6,28957,6764	15,42443	
31	76951,10293,43418	1 20493,36631	1 56584,32656	9,88621,48489,2209	10,08096,31378	18:36
	11,14742,96523	42,78412	32,92047	6,29181,0899	15,42343	
30	76939,95550,46895	1 20450,58219	1 56551,40609	9,88615,19308,1310	10,08080,89035	18: 0
	11,14977,33774	42,76614	32,90186	6,29404,5682	15,42242	
29	76928,80573,13121	1 20407,81605	1 56518,50423	9,88608,89903,5628	10,08065,46793	17:24
	11,15211,67627	42,74816	32,88327	6,29628,1111	15,42142	
28	76917,65361,45494	1 20365,06789	1 56485,62096	9,88602,60275,4517	10,08050,04651	16:48
	11,15445,98085	42,73021	32,86469	6,29851,7189	15,42041	
27	76906,49915,47409	1 20322,33768	1 56452,75627	9,88596,30423,7328	10,08034,62610	16:12
	11,15680,25145	42,71227	32,84613	6,30075,3917	15,41941	
26	76895,34235,22264	1 20279,62541	1 56419,91014	9,88590,00348,3411	10,08019,20669	15:36
	11,15914,48804	42,69434	32,82757	6,30299,1293	15,41841	
25	76884,18320,73460	1 20236,93107	1 56387,08257	9,88583,70049,2118	10,08003,78828	15: 0
	11,16148,69067	42,67642	32,80904	6,30522,9318	15,41741	
24	76873,02172,04393	1 20194,25465	1 56354,27353	9,88577,39526,2800	10,07988,37087	14:24
	11,16382,85928	42,65852	32,79051	6,30746,7993	15,41642	
23	76861,85789,18465	1 20151,59613	1 56321,48302	9,88571,08779,4807	10,07972,95445	13:48
	11,16616,99388	42,64063	32,77200	6,30970,7320	15,41543	
22	76850,69172,19077	1 20108,95550	1 56288,71102	9,88564,77808,7487	10,07957,53902	13:12
	11,16851,09448	42,62276	32,75351	6,31194,7296	15,41443	
21	76839,52321,09629	1 20066,33274	1 56255,95751	9,88558,46614,0191	10,07942,12459	12:36
	11,17085,16106	42,60490	32,73502	6,31418,7924	15,41344	
20	76828,35235,93523	1 20023,72784	1 56223,22249	9,88552,15195,2267	10,07926,71115	12: 0
	11,17319,19359	42,58705	32,71655	6,31642,9203	15,41246	
19	76817,17916,74164	1 19981,14079	1 56190,50594	9,88545,83552,3064	10,07911,29869	11:24
	11,17553,19211	42,56922	32,69810	6,31867,1135	15,41147	
18	76806,00363,54953	1 19938,57157	1 56157,80784	9,88539,51685,1929	10,07895,88722	10:48
	11,17787,15657	42,55141	32,67965	6,32091,3719	15,41049	
17	76794,82576,39296	1 19896,02016	1 56125,12819	9,88533,19593,8210	10,07880,47673	10:12
	11,18021,08699	42,53359	32,66123	6,32315,6956	15,40950	
16	76783,64555,30597	1 19853,48657	1 56092,46696	9,88526,87278,1254	10,07865,06723	9:36
	11,18254,98334	42,51581	32,64281	6,32540,0846	15,40853	
15	76772,46300,32263	1 19810,97076	1 56059,82415	9,88520,54738,0408	10,07849,65870	9: 0
	11,18488,84564	42,49803	32,62440	6,32764,5390	15,40755	
14	76761,27811,47699	1 19768,47273	1 56027,19975	9,88514,21973,5018	10,07834,25115	8:24
	11,18722,67387	42,48026	32,60602	6,32989,0588	15,40657	
13	76750,09088,80312	1 19725,99247	1 55994,59373	9,88507,88984,4430	10,07818,84458	7:48
	11,18956,46801	42,46252	32,58765	6,33213,6441	15,40560	
12	76738,90132,33511	1 19683,52995	1 55962,00608	9,88501,55770,7989	10,07803,43898	7:12
	11,19190,22807	42,44478	32,56928	6,33438,2948	15,40463	
11	76727,70942,10704	1 19641,08517	1 55929,43680	9,88495,22332,5041	10,07788,03435	6:36
	11,19423,95404	42,42706	32,55094	6,33663,0111	15,40366	
10	76716,51518,15300	1 19598,65811	1 55896,88586	9,88488,88669,4930	10,07772,63069	6: 0
	11,19657,64591	42,40935	32,53260	6,33887,7930	15,40269	
9	76705,31860,50709	1 19556,24876	1 55864,35326	9,88482,54781,7000	10,07757,22800	5:24
	11,19891,30367	42,39165	32,51428	6,34112,6406	15,40173	
8	76694,11969,20342	1 19513,85711	1 55831,83898	9,88476,20669,0594	10,07741,82627	4:48
	11,20124,92732	42,37397	32,49597	6,34337,5537	15,40076	
7	76682,91844,27610	1 19471,48314	1 55799,34301	9,88469,86331,5057	10,07726,42551	4:12
	11,20358,51685	42,35631	32,47768	6,34562,5326	15,39980	
6	76671,71485,75925	1 19429,12683	1 55766,86533	9,88463,51768,9731	10,07711,02571	3:36
	11,20592,07224	42,33865	32,45940	6,34787,5773	15,39884	
5	76660,50893,68701	1 19386,78818	1 55734,40593	9,88457,16981,3958	10,07695,62687	3: 0
	11,20825,59351	42,32101	32,44113	6,35012,6877	15,39789	
4	76649,30068,09350	1 19344,46717	1 55701,96480	9,88450,81968,7081	10,07680,22898	2:24
	11,21059,08063	42,30339	32,42287	6,35237,8641	15,39693	
3	76638,09009,01287	1 19302,16378	1 55669,54193	9,88444,46730,8440	10,07664,83205	1:48
	11,21292,53360	42,28577	32,40464	6,35463,1062	15,39597	
2	76626,87716,47927	1 19259,87801	1 55637,13729	9,88438,11267,7378	10,07649,43608	1:12
	11,21525,95242	42,26817	32,38641	6,35688,4143	15,39503	
1	76615,66190,52685	1 19217,60984	1 55604,75088	9,88431,75579,3235	10,07634,04105	0:36
	11,21759,33707	42,25058	32,36819	6,35913,7883	15,39407	
0	76604,44431,18978	1 19175,35926	1 55572,38269	9,88425,39665,5352	10,07618,64698	0: 0
	11,21992,68755	42,23301	32,35000	6,36139,2284	15,39313	

GRAD. 50.

40. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	64278,76096,86539	83909,96312	1 30540,72893	9,80806,74967,5243	9,92381,35302	0: 0
	13,36901,86597	29,74630	19,12255	9,03173,4960	15,39313	
1	64292,12998,73136	83939,70942	1 30559,85148	9,80815,78141,0203	9,92396,74615	0:36
	13,36706,02093	29,75503	19,13213	9,02853,4419	15,39218	
2	64305,49704,75229	83969,46445	1 30578,98361	9,80824,80994,4622	9,92412,13833	1:12
	13,36510,13520	29,76374	19,14171	9,02533,5207	15,39124	
3	64318,86214,88749	83999,22819	1 30598,12532	9,80833,83527,9829	9,92427,52957	1:48
	13,36314,20873	29,77248	19,15131	9,02213,7327	15,39029	
4	64332,22529,09622	84029,00067	1 30617,27663	9,80842,85741,7156	9,92442,91986	2:24
	13,36118,24157	29,78121	19,16090	9,01894,0773	15,38936	
5	64345,58647,33779	84058,78188	1 30636,43753	9,80851,87635,7929	9,92458,30922	3: 0
	13,35922,23370	29,78995	19,17051	9,01574,5548	15,38842	
6	64358,94569,57149	84088,57183	1 30655,60804	9,80860,89210,3477	9,92473,69764	3:36
	13,35726,18515	29,79869	19,18011	9,01255,1648	15,38749	
7	64372,30295,75664	84118,37052	1 30674,78815	9,80869,90465,5125	9,92489,08513	4:12
	13,35530,09590	29,80744	19,18973	9,00935,9074	15,38655	
8	64385,65825,85254	84148,17796	1 30693,97788	9,80878,91401,4199	9,92504,47168	4:48
	13,35333,96596	29,81620	19,19935	9,00616,7825	15,38562	
9	64399,01159,81850	84177,99416	1 30713,17723	9,80887,92018,2024	9,92519,85730	5:24
	13,35137,79537	29,82497	19,20897	9,00297,7899	15,38468	
10	64412,36297,61387	84207,81913	1 30732,38620	9,80896,92315,9923	9,92535,24198	6: 0
	13,34941,58408	29,83373	19,21861	8,99978,9294	15,38377	
11	64425,71239,19795	84237,65286	1 30751,60481	9,80905,92294,9217	9,92550,62575	6:36
	13,34745,33214	29,84251	19,22823	8,99660,2012	15,38283	
12	64439,05984,53009	84267,49537	1 30770,83304	9,80914,91955,1229	9,92566,00858	7:12
	13,34549,03954	29,85128	19,23788	8,99341,6049	15,38192	
13	64452,40533,56963	84297,34665	1 30790,07092	9,80923,91296,7278	9,92581,39050	7:48
	13,34352,70628	29,86007	19,24753	8,99023,1406	15,38099	
14	64465,74886,27591	84327,20672	1 30809,31845	9,80932,90319,8684	9,92596,77149	8:24
	13,34156,33239	29,86886	19,25718	8,98704,8080	15,38007	
15	64479,09042,60830	84357,07558	1 30828,57563	9,80941,89024,6764	9,92612,15156	9: 0
	13,33959,91784	29,87766	19,26683	8,98386,6073	15,37915	
16	64492,43002,52614	84386,95324	1 30847,84246	9,80950,87411,2837	9,92627,53071	9:36
	13,33763,46267	29,88646	19,27650	8,98068,5381	15,37824	
17	64505,76765,98881	84416,83970	1 30867,11896	9,80959,85479,8218	9,92642,90895	10:12
	13,33566,96687	29,89527	19,28617	8,97750,6004	15,37733	
18	64519,10332,95568	84446,73497	1 30886,40513	9,80968,83230,4222	9,92658,28628	10:48
	13,33370,43043	29,90408	19,29583	8,97432,7943	15,37641	
19	64532,43703,38611	84476,63905	1 30905,70096	9,80977,80663,2165	9,92673,66269	11:24
	13,33173,85340	29,91290	19,30552	8,97115,1193	15,37550	
20	64545,76877,23951	84506,55195	1 30925,00648	9,80986,77778,3358	9,92689,03819	12: 0
	13,32977,23573	29,92173	19,31520	8,96797,5756	15,37460	
21	64559,09854,47524	84536,47368	1 30944,32168	9,80995,74575,9114	9,92704,41279	12:36
	13,32780,57748	29,93055	19,32490	8,96480,1630	15,37369	
22	64572,42635,05272	84566,40423	1 30963,64658	9,81004,71056,0744	9,92719,78648	13:12
	13,32583,87862	29,93940	19,33458	8,96162,8814	15,37278	
23	64585,75218,93134	84596,34363	1 30982,98116	9,81013,67218,9558	9,92735,15926	13:48
	13,32387,13917	29,94823	19,34429	8,95845,7308	15,37189	
24	64599,07606,07051	84626,29186	1 31002,32545	9,81022,63064,6866	9,92750,53115	14:24
	13,32190,35913	29,95708	19,35400	8,95528,7110	15,37098	
25	64612,39796,42964	84656,24894	1 31021,67945	9,81031,58593,3976	9,92765,90213	15: 0
	13,31993,53851	29,96594	19,36370	8,95211,8218	15,37009	
26	64625,71789,96815	84686,21488	1 31041,04315	9,81040,53805,2194	9,92781,27222	15:36
	13,31796,67732	29,97480	19,37343	8,94895,0633	15,36919	
27	64639,03586,64547	84716,18968	1 31060,41658	9,81049,48700,2827	9,92796,64141	16:12
	13,31599,77555	29,98366	19,38315	8,94578,4353	15,36829	
28	64652,35186,42102	84746,17334	1 31079,79973	9,81058,43278,7180	9,92812,00970	16:48
	13,31402,83323	29,99253	19,39287	8,94261,9377	15,36741	
29	64665,66589,25425	84776,16587	1 31099,19260	9,81067,37540,6557	9,92827,37711	17:24
	13,31205,85035	30,00141	19,40261	8,93945,5704	15,36651	
30	64678,97795,10460	84806,16728	1 31118,59521	9,81076,31486,2261	9,92842,74362	18: 0
	13,31008,82691	30,01030	19,41235	8,93629,3334	15,36563	
31	64692,28803,93151	84836,17758	1 31138,00756	9,81085,25115,5595	9,92858,10925	18:36
	13,30811,76293	30,01918	19,42209	8,93313,2265	15,36474	
32	64705,59615,69444	84866,19676	1 31157,42965	9,81094,18428,7860	9,92873,47399	19:12
	13,30614,65842	30,02807	19,43184	8,92997,2495	15,36386	
33	64718,90230,35286	84896,22483	1 31176,86149	9,81103,11426,0355	9,92888,83785	19:48
	13,30417,51337	30,03698	19,44160	8,92681,4025	15,36297	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	76604,44431,18978 11,21992,68755	1 19175,35926 42,23301	1 55572,38269 32,35000	9,88425,39665,5352 6,36139,2284	10,07618,64698 15,39313	60: 0
99	76593,22438,50223 11,22226,00385	1 19133,12625 42,21546	1 55540,03269 32,33181	9,88419,03526,3068 6,36364,7346	10,07603,25385 15,39218	59:24
98	76582,00212,49838 11,22459,28598	1 19090,91079 42,19790	1 55507,70088 32,31363	9,88412,67161,5722 6,36590,3068	10,07587,86167 15,39124	58:48
97	76570,77753,21240 11,22692,53389	1 19048,71289 42,18038	1 55475,38725 32,29547	9,88406,30571,2654 6,36815,9451	10,07572,47043 15,39029	58:12
96	76559,55060,67851 11,22925,74763	1 19006,53251 42,16285	1 55443,09178 32,27733	9,88399,93755,3203 6,37041,6497	10,07557,08014 15,38936	57:36
95	76548,32134,93088 11,23158,92714	1 18964,36966 42,14536	1 55410,81445 32,25919	9,88393,56713,6706 6,37267,4205	10,07541,69078 15,38842	57: 0
94	76537,08976,00374 11,23392,07246	1 18922,22430 42,12786	1 55378,55526 32,24108	9,88387,19446,2501 6,37493,2575	10,07526,30236 15,38749	56:24
93	76525,85583,93128 11,23625,18354	1 18880,09644 42,11038	1 55346,31418 32,22296	9,88380,81952,9926 6,37719,1608	10,07510,91487 15,38655	55:48
92	76514,61958,74774 11,23858,26040	1 18837,98606 42,09291	1 55314,09122 32,20487	9,88374,44233,8318 6,37945,1305	10,07495,52832 15,38562	55:12
91	76503,38100,48734 11,24091,30302	1 18795,89315 42,07547	1 55281,88635 32,18679	9,88368,06288,7013 6,38171,1667	10,07480,14270 15,38468	54:36
90	76492,14009,18432 11,24324,31141	1 18753,81768 42,05803	1 55249,69956 32,16872	9,88361,68117,5346 6,38397,2691	10,07464,75802 15,38377	54: 0
89	76480,89684,87291 11,24557,28554	1 18711,75965 42,04060	1 55217,53084 32,15067	9,88355,29720,2655 6,38623,4382	10,07449,37425 15,38283	53:24
88	76469,65127,58737 11,24790,22542	1 18669,71905 42,02319	1 55185,38017 32,13262	9,88348,91096,8273 6,38849,6737	10,07433,99142 15,38192	52:48
87	76458,40337,36195 11,25023,13103	1 18627,69586 42,00580	1 55153,24755 32,11460	9,88342,52247,1536 6,39075,9759	10,07418,60950 15,38099	52:12
86	76447,15314,23092 11,25256,00238	1 18585,69006 41,98841	1 55121,13295 32,09658	9,88336,13171,1777 6,39302,3445	10,07403,22851 15,38007	51:36
85	76435,90058,22854 11,25488,83945	1 18543,70165 41,97104	1 55089,03637 32,07858	9,88329,73868,8332 6,39528,7799	10,07387,84844 15,37915	51: 0
84	76424,64569,38909 11,25721,64223	1 18501,73061 41,95368	1 55056,95779 32,06059	9,88323,34340,0533 6,39755,2820	10,07372,46929 15,37824	50:24
83	76413,38847,74686 11,25954,41072	1 18459,77693 41,93634	1 55024,89720 32,04262	9,88316,94584,7713 6,39981,8509	10,07357,09105 15,37733	49:48
82	76402,12893,33614 11,26187,14492	1 18417,84059 41,91900	1 54992,85458 32,02465	9,88310,54602,9204 6,40208,4864	10,07341,71372 15,37641	49:12
81	76390,86706,19122 11,26419,84480	1 18375,92159 41,90169	1 54960,82993 32,00671	9,88304,14394,4340 6,40435,1888	10,07326,33731 15,37550	48:36
80	76379,60286,34642 11,26652,51038	1 18334,01990 41,88438	1 54928,82322 31,98876	9,88297,73959,2452 6,40661,9582	10,07310,96181 15,37460	48: 0
79	76368,33633,83604 11,26885,14163	1 18292,13552 41,86710	1 54896,83446 31,97085	9,88291,33297,2870 6,40888,7944	10,07295,58721 15,37369	47:24
78	76357,06748,69441 11,27117,73856	1 18250,26842 41,84981	1 54864,86361 31,95293	9,88284,92408,4926 6,41115,6975	10,07280,21352 15,37278	46:48
77	76345,79630,95585 11,27350,30115	1 18208,41861 41,83255	1 54832,91068 31,93503	9,88278,51292,7951 6,41342,6677	10,07264,84074 15,37189	46:12
76	76334,52280,65470 11,27582,82941	1 18166,58606 41,81530	1 54800,97565 31,91716	9,88272,09950,1274 6,41569,7050	10,07249,46885 15,37098	45:36
75	76323,24697,82529 11,27815,32331	1 18124,77076 41,79806	1 54769,05849 31,89928	9,88265,68380,4224 6,41796,8092	10,07234,09787 15,37009	45: 0
74	76311,96882,50198 11,28047,78287	1 18082,97270 41,78083	1 54737,15921 31,88142	9,88259,26583,6132 6,42023,9807	10,07218,72778 15,36919	44:24
73	76300,68834,71911 11,28280,20805	1 18041,19187 41,76363	1 54705,27779 31,86357	9,88252,84559,6325 6,42251,2194	10,07203,35859 15,36829	43:48
72	76289,40554,51106 11,28512,59887	1 17999,42824 41,74642	1 54673,41422 31,84575	9,88246,42308,4131 6,42478,5251	10,07187,99030 15,36741	43:12
71	76278,12041,91219 11,28744,95531	1 17957,68182 41,72924	1 54641,56847 31,82792	9,88239,99829,8880 6,42705,8983	10,07172,62289 15,36651	42:36
70	76266,83296,95688 11,28977,27737	1 17915,95258 41,71207	1 54609,74055 31,81012	9,88233,57123,9897 6,42933,3386	10,07157,25638 15,36563	42: 0
69	76255,54319,67951 11,29209,56503	1 17874,24051 41,69490	1 54577,93043 31,79232	9,88227,14190,6511 6,43160,8465	10,07141,89075 15,36474	41:24
68	76244,25110,11448 11,29441,81831	1 17832,54561 41,67777	1 54546,13811 31,77455	9,88220,71029,8046 6,43388,4216	10,07126,52601 15,36386	40:48
67	76232,95668,29617 11,29674,03717	1 17790,86784 41,66062	1 54514,36356 31,75677	9,88214,27641,3830 6,43616,0641	10,07111,16215 15,36297	40:12

GRAD. 49.

40. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	64718,90230,35286 13,30417,51337	84896,22483 30,03698	1 31176,86149 19,44160	9,81103,11426,0355 8,92681,4025	9,92888,83785 15,36297	19:48
34	64732,20647,86623 13,30220,32779	84926,26181 30,04588	1 31196,30309 19,45136	9,81112,04107,4380 8,92365,6853	9,92904,20082 15,36210	20:24
35	64745,50868,19402 13,30023,10169	84956,30769 30,05479	1 31215,75445 19,46113	9,81120,96473,1233 8,92050,0978	9,92919,56292 15,36121	21: 0
36	64758,80891,29571 13,29825,83509	84986,36248 30,06371	1 31235,21558 19,47090	9,81129,88523,2211 8,91734,6400	9,92934,92413 15,36034	21:36
37	64772,10717,13080 13,29628,52796	85016,42619 30,07264	1 31254,68648 19,48068	9,81138,80257,8611 8,91419,3116	9,92950,28447 15,35947	22:12
38	64785,40345,65876 13,29431,18033	85046,49883 30,08156	1 31274,16716 19,49046	9,81147,71677,1727 8,91104,1127	9,92965,64394 15,35859	22:48
39	64798,69776,83909 13,29233,79222	85076,58039 30,09050	1 31293,65762 19,50025	9,81156,62781,2854 8,90789,0432	9,92981,00253 15,35773	23:24
40	64811,99010,63131 13,29036,36360	85106,67089 30,09943	1 31313,15787 19,51004	9,81165,53570,3286 8,90474,1027	9,92996,36026 15,35685	24: 0
41	64825,28046,99491 13,28838,89451	85136,77032 30,10839	1 31332,66791 19,51985	9,81174,44044,4313 8,90159,2915	9,93011,71711 15,35599	24:36
42	64838,56885,88942 13,28641,38493	85166,87871 30,11733	1 31352,18776 19,52965	9,81183,34203,7228 8,89844,6092	9,93027,07310 15,35513	25:12
43	64851,85527,27435 13,28443,83489	85196,99604 30,12630	1 31371,71741 19,53946	9,81192,24048,3320 8,89530,0560	9,93042,42823 15,35426	25:48
44	64865,13971,10924 13,28246,24437	85227,12234 30,13525	1 31391,25687 19,54928	9,81201,13578,3880 8,89215,6314	9,93057,78249 15,35340	26:24
45	64878,42217,35361 13,28048,61340	85257,25759 30,14423	1 31410,80615 19,55910	9,81210,02794,0194 8,88901,3358	9,93073,13589 15,35255	27: 0
46	64891,70265,96701 13,27850,94196	85287,40182 30,15321	1 31430,36525 19,56893	9,81218,91695,3552 8,88587,1686	9,93088,48844 15,35168	27:36
47	64904,98116,90897 13,27653,23009	85317,55503 30,16218	1 31449,93418 19,57876	9,81227,80282,5238 8,88273,1300	9,93103,84012 15,35084	28:12
48	64918,25770,13906 13,27455,47777	85347,71721 30,17117	1 31469,51294 19,58860	9,81236,68555,6538 8,87959,2199	9,93119,19096 15,34998	28:48
49	64931,53225,61683 13,27257,68501	85377,88838 30,18017	1 31489,10154 19,59845	9,81245,56514,8737 8,87645,4381	9,93134,54094 15,34913	29:24
50	64944,80483,30184 13,27059,85182	85408,06855 30,18916	1 31508,69999 19,60830	9,81254,44160,3118 8,87331,7846	9,93149,89007 15,34828	30: 0
51	64958,07543,15366 13,26861,97821	85438,25771 30,19817	1 31528,30829 19,61815	9,81263,31492,0964 8,87018,2591	9,93165,23835 15,34743	30:36
52	64971,34405,13187 13,26664,06417	85468,45588 30,20718	1 31547,92644 19,62801	9,81272,18510,3555 8,86704,8617	9,93180,58578 15,34659	31:12
53	64984,61069,19604 13,26466,10973	85498,66306 30,21619	1 31567,55445 19,63788	9,81281,05215,2172 8,86391,5923	9,93195,93237 15,34575	31:48
54	64997,87535,30577 13,26268,11489	85528,87925 30,22522	1 31587,19233 19,64776	9,81289,91606,8095 8,86078,4507	9,93211,27812 15,34491	32:24
55	65011,13803,42066 13,26070,07963	85559,10447 30,23425	1 31606,84009 19,65763	9,81298,77685,2602 8,85765,4369	9,93226,62303 15,34406	33: 0
56	65024,39873,50029 13,25872,00398	85589,33872 30,24328	1 31626,49772 19,66752	9,81307,63450,6971 8,85452,5508	9,93241,96709 15,34324	33:36
57	65037,65745,50427 13,25673,88796	85619,58200 30,25232	1 31646,16524 19,67740	9,81316,48903,2479 8,85139,7921	9,93257,31033 15,34239	34:12
58	65050,91419,39223 13,25475,73153	85649,83432 30,26137	1 31665,84264 19,68731	9,81325,34043,0400 8,84827,1610	9,93272,65272 15,34156	34:48
59	65064,16895,12376 13,25277,53475	85680,09569 30,27042	1 31685,52995 19,69720	9,81334,18870,2010 8,84514,6572	9,93287,99428 15,34074	35:24
60	65077,42172,65851 13,25079,29758	85710,36611 30,27947	1 31705,22715 19,70711	9,81343,03384,8582 8,84202,2806	9,93303,33502 15,33990	36: 0
61	65090,67251,95609 13,24881,02006	85740,64558 30,28854	1 31724,93426 19,71702	9,81351,87587,1388 8,83890,0313	9,93318,67492 15,33908	36:36
62	65103,92132,97615 13,24682,70217	85770,93412 30,29762	1 31744,65128 19,72694	9,81360,71477,1701 8,83577,9091	9,93334,01400 15,33825	37:12
63	65117,16815,67832 13,24484,34393	85801,23174 30,30668	1 31764,37822 19,73686	9,81369,55055,0792 8,83265,9137	9,93349,35225 15,33743	37:48
64	65130,41300,02225 13,24285,94535	85831,53842 30,31577	1 31784,11508 19,74679	9,81378,38320,9929 8,82954,0454	9,93364,68968 15,33660	38:24
65	65143,65585,96760 13,24087,50643	85861,85419 30,32485	1 31803,86187 19,75673	9,81387,21275,0383 8,82642,3037	9,93380,02628 15,33579	39: 0
66	65156,89673,47403 13,23889,02717	85892,17904 30,33395	1 31823,61860 19,76667	9,81396,03917,3420 8,82330,6887	9,93395,36207 15,33497	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	76232,95668,29617 11,29674,03717	1 17790,86784 41,66062	1 54514,36356 31,75677	9,88214,27641,3830 6,43616,0641	10,07111,16215 15,36297	40:12
66	76221,65994,25900 11,29906,22162	1 17749,20722 41,64351	1 54482,60679 31,73902	9,88207,84025,3189 6,43843,7743	10,07095,79918 15,36210	39:36
65	76210,36088,03738 11,30138,37166	1 17707,56371 41,62640	1 54450,86777 31,72128	9,88201,40181,5446 6,44071,5518	10,07080,43708 15,36121	39: 0
64	76199,05949,66572 11,30370,48727	1 17665,93731 41,60931	1 54419,14649 31,70355	9,88194,96109,9928 6,44299,3971	10,07065,07587 15,36034	38:24
63	76187,75579,17845 11,30602,56844	1 17624,32800 41,59223	1 54387,44294 31,68583	9,88188,51810,5957 6,44527,3098	10,07049,71553 15,35947	37:48
62	76176,44976,61001 11,30834,61518	1 17582,73577 41,57516	1 54355,75711 31,66813	9,88182,07283,2859 6,44755,2902	10,07034,35606 15,35859	37:12
61	76165,14141,99483 11,31066,62746	1 17541,16061 41,55810	1 54324,08898 31,65044	9,88175,62527,9957 6,44983,3384	10,07018,99747 15,35773	36:36
60	76153,83075,36737 11,31298,60530	1 17499,60251 41,54106	1 54292,43854 31,63276	9,88169,17544,6573 6,45211,4543	10,07003,63974 15,35685	36: 0
59	76142,51776,76207 11,31530,54867	1 17458,06145 41,52404	1 54260,80578 31,61510	9,88162,72333,2030 6,45439,6380	10,06988,28289 15,35599	35:24
58	76131,20246,21340 11,31762,45758	1 17416,53741 41,50702	1 54229,19068 31,59744	9,88156,26893,5650 6,45667,8895	10,06972,92690 15,35513	34:48
57	76119,88483,75582 11,31994,33200	1 17375,03039 41,49001	1 54197,59324 31,57981	9,88149,81225,6755 6,45896,2089	10,06957,57177 15,35426	34:12
56	76108,56489,42382 11,32226,17195	1 17333,54038 41,47303	1 54166,01343 31,56218	9,88143,35329,4666 6,46124,5962	10,06942,21751 15,35340	33:36
55	76097,24263,25187 11,32457,97741	1 17292,06735 41,45605	1 54134,45125 31,54456	9,88136,89204,8704 6,46353,0516	10,06926,86411 15,35255	33: 0
54	76085,91805,27446 11,32689,74837	1 17250,61130 41,43908	1 54102,90669 31,52696	9,88130,42851,8188 6,46581,5748	10,06911,51156 15,35168	32:24
53	76074,59115,52609 11,32921,48482	1 17209,17222 41,42214	1 54071,37973 31,50937	9,88123,96270,2440 6,46810,1661	10,06896,15988 15,35084	31:48
52	76063,26194,04127 11,33153,18677	1 17167,75008 41,40520	1 54039,87036 31,49180	9,88117,49460,0779 6,47038,8256	10,06880,80904 15,34998	31:12
51	76051,93040,85450 11,33384,85419	1 17126,34488 41,38827	1 54008,37856 31,47424	9,88111,02421,2523 6,47267,5532	10,06865,45906 15,34913	30:36
50	76040,59656,00031 11,33616,48710	1 17084,95661 41,37136	1 53976,90432 31,45668	9,88104,55153,6991 6,47496,3490	10,06850,10993 15,34828	30: 0
49	76029,26039,51321 11,33848,08547	1 17043,58525 41,35446	1 53945,44764 31,43915	9,88098,07657,3501 6,47725,2130	10,06834,76165 15,34743	29:24
48	76017,92191,42774 11,34079,64930	1 17002,23079 41,33757	1 53914,00849 31,42162	9,88091,59932,1371 6,47954,1454	10,06819,41422 15,34659	28:48
47	76006,58111,77844 11,34311,17858	1 16960,89322 41,32071	1 53882,58687 31,40411	9,88085,11977,9917 6,48183,1459	10,06804,06763 15,34575	28:12
46	75995,23800,59986 11,34542,67332	1 16919,57251 41,30384	1 53851,18276 31,38661	9,88078,63794,8458 6,48412,2149	10,06788,72188 15,34491	27:36
45	75983,89257,92654 11,34774,13349	1 16878,26867 41,28699	1 53819,79615 31,36912	9,88072,15382,6309 6,48641,3523	10,06773,37697 15,34406	27: 0
44	75972,54483,79305 11,35005,55910	1 16836,98168 41,27016	1 53788,42703 31,35165	9,88065,66741,2786 6,48870,5582	10,06758,03291 15,34324	26:24
43	75961,19478,23395 11,35236,95013	1 16795,71152 41,25333	1 53757,07538 31,33418	9,88059,17870,7204 6,49099,8325	10,06742,68967 15,34239	25:48
42	75949,84241,28382 11,35468,30657	1 16754,45819 41,23653	1 53725,74120 31,31674	9,88052,68770,8879 6,49329,1754	10,06727,34728 15,34156	25:12
41	75938,48772,97725 11,35699,62844	1 16713,22166 41,21973	1 53694,42446 31,29930	9,88046,19441,7125 6,49558,5870	10,06712,00572 15,34074	24:36
40	75927,13073,34881 11,35930,91571	1 16672,00193 41,20294	1 53663,12516 31,28187	9,88039,69883,1255 6,49788,0670	10,06696,66498 15,33990	24: 0
39	75915,77142,43310 11,36162,16836	1 16630,79899 41,18618	1 53631,84329 31,26447	9,88033,20095,0585 6,50017,6158	10,06681,32508 15,33908	23:24
38	75904,40980,26474 11,36393,38643	1 16589,61281 41,16942	1 53600,57882 31,24706	9,88026,70077,4427 6,50247,2334	10,06665,98600 15,33825	22:48
37	75893,04586,87831 11,36624,56986	1 16548,44339 41,15267	1 53569,33176 31,22968	9,88020,19830,2093 6,50476,9197	10,06650,64775 15,33743	22:12
36	75881,67962,30845 11,36855,71867	1 16507,29072 41,13594	1 53538,10208 31,21230	9,88013,69353,2896 6,50706,6748	10,06635,31032 15,33660	21:36
35	75870,31106,58978 11,37086,83286	1 16466,15478 41,11921	1 53506,88978 31,19494	9,88007,18646,6148 6,50936,4987	10,06619,97372 15,33579	21: 0
34	75858,94019,75692 11,37317,91240	1 16425,03557 41,10251	1 53475,69484 31,17759	9,88000,67710,1161 6,51166,3916	10,06604,63793 15,33497	20:24

GRAD. 49.

40. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	65170,13562,50120	85922,51299	1 31843,38527	9,81404,86248,0307	9,93410,69704	40:12
	13,23690,50759	30,34305	19,77661	8,82019,2004	15,33416	
68	65183,37253,00879	85952,85604	1 31863,16188	9,81413,68267,2311	9,93426,03120	40:48
	13,23491,94768	30,35215	19,78657	8,81707,8386	15,33334	
69	65196,60744,95647	85983,20819	1 31882,94845	9,81422,49975,0697	9,93441,36454	41:24
	13,23293,34745	30,36127	19,79652	8,81396,6031	15,33253	
70	65209,84038,30392	86013,56946	1 31902,74497	9,81431,31371,6728	9,93456,69707	42: 0
	13,23094,70692	30,37038	19,80649	8,81085,4940	15,33172	
71	65223,07133,01084	86043,93984	1 31922,55146	9,81440,12457,1668	9,93472,02879	42:36
	13,22896,02609	30,37950	19,81645	8,80774,5110	15,33092	
72	65236,30029,03693	86074,31934	1 31942,36791	9,81448,93231,6778	9,93487,35971	43:12
	13,22697,30495	30,38863	19,82643	8,80463,6541	15,33011	
73	65249,52726,34188	86104,70797	1 31962,19434	9,81457,73695,3319	9,93502,68982	43:48
	13,22498,54353	30,39777	19,83641	8,80152,9234	15,32930	
74	65262,75224,88541	86135,10574	1 31982,03075	9,81466,53848,2553	9,93518,01912	44:24
	13,22299,74181	30,40691	19,84640	8,79842,3185	15,32850	
75	65275,97524,62722	86165,51265	1 32001,87715	9,81475,33690,5738	9,93533,34762	45: 0
	13,22100,89983	30,41606	19,85639	8,79531,8394	15,32771	
76	65289,19625,52705	86195,92871	1 32021,73354	9,81484,13222,4132	9,93548,67533	45:36
	13,21902,01756	30,42521	19,86638	8,79221,4861	15,32690	
77	65302,41527,54461	86226,35392	1 32041,59992	9,81492,92443,8993	9,93564,00223	46:12
	13,21703,09503	30,43437	19,87639	8,78911,2584	15,32611	
78	65315,63230,63964	86256,78829	1 32061,47631	9,81501,71355,1577	9,93579,32834	46:48
	13,21504,13223	30,44353	19,88640	8,78601,1562	15,32532	
79	65328,84734,77187	86287,23182	1 32081,36271	9,81510,49956,3139	9,93594,65366	47:24
	13,21305,12918	30,45270	19,89641	8,78291,1796	15,32453	
80	65342,06039,90105	86317,68452	1 32101,25912	9,81519,28247,4935	9,93609,97819	48: 0
	13,21106,08589	30,46188	19,90643	8,77981,3281	15,32373	
81	65355,27145,98694	86348,14640	1 32121,16555	9,81528,06228,8216	9,93625,30192	48:36
	13,20907,00235	30,47107	19,91646	8,77671,6021	15,32295	
82	65368,48052,98929	86378,61747	1 32141,08201	9,81536,83900,4237	9,93640,62487	49:12
	13,20707,87857	30,48025	19,92649	8,77362,0011	15,32216	
83	65381,68760,86786	86409,09772	1 32161,00850	9,81545,61262,4248	9,93655,94703	49:48
	13,20508,71455	30,48945	19,93653	8,77052,5252	15,32137	
84	65394,89269,58241	86439,58717	1 32180,94503	9,81554,38314,9500	9,93671,26840	50:24
	13,20309,51033	30,49865	19,94658	8,76743,1744	15,32060	
85	65408,09579,09274	86470,08582	1 32200,89161	9,81563,15058,1244	9,93686,58900	51: 0
	13,20110,26587	30,50785	19,95662	8,76433,9483	15,31981	
86	65421,29689,35861	86500,59367	1 32220,84823	9,81571,91492,0727	9,93701,90881	51:36
	13,19910,98121	30,51707	19,96667	8,76124,8470	15,31904	
87	65434,49600,33982	86531,11074	1 32240,81490	9,81580,67616,9197	9,93717,22785	52:12
	13,19711,65633	30,52629	19,97674	8,75815,8705	15,31826	
88	65447,69311,99615	86561,63703	1 32260,79164	9,81589,43432,7902	9,93732,54611	52:48
	13,19512,29126	30,53551	19,98680	8,75507,0185	15,31749	
89	65460,88824,28741	86592,17254	1 32280,77844	9,81598,18939,8087	9,93747,86360	53:24
	13,19312,88599	30,54475	19,99688	8,75198,2911	15,31671	
90	65474,08137,17340	86622,71729	1 32300,77532	9,81606,94138,0998	9,93763,18031	54: 0
	13,19113,44053	30,55398	20,00696	8,74889,6879	15,31594	
91	65487,27250,61393	86653,27127	1 32320,78228	9,81615,69027,7877	9,93778,49625	54:36
	13,18913,95490	30,56323	20,01703	8,74581,2093	15,31518	
92	65500,46164,56883	86683,83450	1 32340,79931	9,81624,43608,9970	9,93793,81143	55:12
	13,18714,42907	30,57247	20,02713	8,74272,8547	15,31441	
93	65513,64878,99790	86714,40697	1 32360,82644	9,81633,17881,8517	9,93809,12584	55:48
	13,18514,86310	30,58173	20,03722	8,73964,6243	15,31364	
94	65526,83393,86100	86744,98870	1 32380,86366	9,81641,91846,4760	9,93824,43948	56:24
	13,18315,25694	30,59099	20,04733	8,73656,5179	15,31288	
95	65540,01709,11794	86775,57969	1 32400,91099	9,81650,65502,9939	9,93839,75236	57: 0
	13,18115,61063	30,60026	20,05743	8,73348,5355	15,31212	
96	65553,19824,72857	86806,17995	1 32420,96842	9,81659,38851,5294	9,93855,06448	57:36
	13,17915,92418	30,60953	20,06755	8,73040,6769	15,31136	
97	65566,37740,65275	86836,78948	1 32441,03597	9,81668,11892,2063	9,93870,37584	58:12
	13,17716,19756	30,61881	20,07766	8,72732,9420	15,31060	
98	65579,55456,85031	86867,40829	1 32461,11363	9,81676,84625,1483	9,93885,68644	58:48
	13,17516,43082	30,62810	20,08779	8,72425,3309	15,30985	
99	65592,72973,28113	86898,03639	1 32481,20142	9,81685,57050,4792	9,93900,99629	59:24
	13,17316,62394	30,63739	20,09791	8,72117,8432	15,30910	
100	65605,90289,90507	86928,67378	1 32501,29933	9,81694,29168,3224	9,93916,30539	60: 0
	13,17116,77693	30,64669	20,10806	8,71810,4790	15,30835	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	75847,56701,84452 11,37548,95730	1 16383,93306 41,08582	1 53444,51725 31,16026	9,87994,16543,7245 6,51396,3535	10,06589,30296 15,33416	19:48
32	75836,19152,88722 11,37779,96755	1 16342,84724 41,06913	1 53413,35699 31,14293	9,87987,65147,3710 6,51626,3843	10,06573,96880 15,33334	19:12
31	75824,81372,91967 11,38010,94315	1 16301,77811 41,05247	1 53382,21406 31,12562	9,87981,13520,9867 6,51856,4841	10,06558,63546 15,33253	18:36
30	75813,43361,97652 11,38241,88407	1 16260,72564 41,03580	1 53351,08844 31,10832	9,87974,61664,5026 6,52086,6531	10,06543,30293 15,33172	18: 0
29	75802,05120,09245 11,38472,79032	1 16219,68984 41,01917	1 53319,98012 31,09103	9,87968,09577,8495 6,52316,8911	10,06527,97121 15,33092	17:24
28	75790,66647,30213 11,38703,66189	1 16178,67067 41,00253	1 53288,88909 31,07376	9,87961,57260,9584 6,52547,1984	10,06512,64029 15,33011	16:48
27	75779,27943,64024 11,38934,49878	1 16137,66814 40,98591	1 53257,81533 31,05649	9,87955,04713,7600 6,52777,5748	10,06497,31018 15,32930	16:12
26	75767,89009,14146 11,39165,30096	1 16096,68223 40,96931	1 53226,75884 31,03925	9,87948,51936,1852 6,53008,0206	10,06481,98088 15,32850	15:36
25	75756,49843,84050 11,39396,06846	1 16055,71292 40,95271	1 53195,71959 31,02201	9,87941,98928,1646 6,53238,5356	10,06466,65238 15,32771	15: 0
24	75745,10447,77204 11,39626,80124	1 16014,76021 40,93613	1 53164,69758 31,00478	9,87935,45689,6290 6,53469,1201	10,06451,32467 15,32690	14:24
23	75733,70820,97080 11,39857,49931	1 15973,82408 40,91957	1 53133,69280 30,98757	9,87928,92220,5089 6,53699,7738	10,06435,99777 15,32611	13:48
22	75722,30963,47149 11,40088,16266	1 15932,90451 40,90300	1 53102,70523 30,97037	9,87922,38520,7351 6,53930,4970	10,06420,67166 15,32532	13:12
21	75710,90875,30883 11,40318,79127	1 15892,00151 40,88647	1 53071,73486 30,95318	9,87915,84590,2381 6,54161,2898	10,06405,34634 15,32453	12:36
20	75699,50556,51756 11,40549,38515	1 15851,11504 40,86993	1 53040,78168 30,93601	9,87909,30428,9483 6,54392,1521	10,06390,02181 15,32373	12: 0
19	75688,10007,13241 11,40779,94428	1 15810,24511 40,85341	1 53009,84567 30,91884	9,87902,76036,7962 6,54623,0839	10,06374,69808 15,32295	11:24
18	75676,69227,18813 11,41010,46868	1 15769,39170 40,83691	1 52978,92683 30,90169	9,87896,21413,7123 6,54854,0854	10,06359,37513 15,32216	10:48
17	75665,28216,71945 11,41240,95830	1 15728,55479 40,82041	1 52948,02514 30,88455	9,87889,66559,6269 6,55085,1566	10,06344,05297 15,32137	10:12
16	75653,86975,76115 11,41471,41317	1 15687,73438 40,80394	1 52917,14059 30,86743	9,87883,11474,4703 6,55316,2975	10,06328,73160 15,32060	9:36
15	75642,45504,34798 11,41701,83326	1 15646,93044 40,78746	1 52886,27316 30,85031	9,87876,56158,1728 6,55547,5080	10,06313,41100 15,31981	9: 0
14	75631,03802,51472 11,41932,21858	1 15606,14298 40,77101	1 52855,42285 30,83321	9,87870,00610,6648 6,55778,7886	10,06298,09119 15,31904	8:24
13	75619,61870,29614 11,42162,56911	1 15565,37197 40,75456	1 52824,58964 30,81612	9,87863,44831,8762 6,56010,1388	10,06282,77215 15,31826	7:48
12	75608,19707,72703 11,42392,88485	1 15524,61741 40,73814	1 52793,77352 30,79904	9,87856,88821,7374 6,56241,5591	10,06267,45389 15,31749	7:12
11	75596,77314,84218 11,42623,16578	1 15483,87927 40,72171	1 52762,97448 30,78198	9,87850,32580,1783 6,56473,0492	10,06252,13640 15,31671	6:36
10	75585,34691,67640 11,42853,41192	1 15443,15756 40,70531	1 52732,19250 30,76492	9,87843,76107,1291 6,56704,6094	10,06236,81969 15,31594	6: 0
9	75573,91838,26448 11,43083,62324	1 15402,45225 40,68892	1 52701,42758 30,74788	9,87837,19402,5197 6,56936,2396	10,06221,50375 15,31518	5:24
8	75562,48754,64124 11,43313,79974	1 15361,76333 40,67253	1 52670,67970 30,73085	9,87830,62466,2801 6,57167,9399	10,06206,18857 15,31441	4:48
7	75551,05440,84150 11,43543,94142	1 15321,09080 40,65616	1 52639,94885 30,71384	9,87824,05298,3402 6,57399,7102	10,06190,87416 15,31364	4:12
6	75539,61896,90008 11,43774,04824	1 15280,43464 40,63981	1 52609,23501 30,69683	9,87817,47898,6300 6,57631,5509	10,06175,56052 15,31288	3:36
5	75528,18122,85184 11,44004,12025	1 15239,79483 40,62346	1 52578,53818 30,67984	9,87810,90267,0791 6,57863,4617	10,06160,24764 15,31212	3: 0
4	75516,74118,73159 11,44234,15739	1 15199,17137 40,60713	1 52547,85834 30,66286	9,87804,32403,6174 6,58095,4428	10,06144,93552 15,31136	2:24
3	75505,29884,57420 11,44464,15969	1 15158,56424 40,59081	1 52517,19548 30,64589	9,87797,74308,1746 6,58327,4941	10,06129,62416 15,31060	1:48
2	75493,85420,41451 11,44694,12711	1 15117,97343 40,57450	1 52486,54959 30,62893	9,87791,15980,6805 6,58559,6159	10,06114,31356 15,30985	1:12
1	75482,40726,28740 11,44924,05968	1 15077,39893 40,55821	1 52455,92066 30,61199	9,87784,57421,0646 6,58791,8081	10,06099,00371 15,30910	0:36
0	75470,95802,22772 11,45153,95736	1 15036,84072 40,54192	1 52425,30867 30,59506	9,87777,98629,2565 6,59024,0707	10,06083,69461 15,30835	0: 0

GRAD. 49.

41. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	65605,90289,90507 13,17116,77693	86928,67378 30,64669	1 32501,29933 20,10806	9,81694,29168,3224 8,71810,4790	9,93916,30539 15,30835	0: 0
1	65619,07406,68200 13,16916,88981	86959,32047 30,65599	1 32521,40739 20,11820	9,81703,00978,8014 8,71503,2383	9,93931,61374 15,30759	0:36
2	65632,24323,57181 13,16716,96255	86989,97646 30,66530	1 32541,52559 20,12834	9,81711,72482,0397 8,71196,1208	9,93946,92133 15,30685	1:12
3	65645,41040,53436 13,16516,99520	87020,64176 30,67462	1 32561,65393 20,13850	9,81720,43678,1605 8,70889,1265	9,93962,22818 15,30611	1:48
4	65658,57557,52956 13,16316,98775	87051,31638 30,68394	1 32581,79243 20,14866	9,81729,14567,2870 8,70582,2552	9,93977,53429 15,30536	2:24
5	65671,73874,51731 13,16116,94019	87082,00032 30,69327	1 32601,94109 20,15882	9,81737,85149,5422 8,70275,5071	9,93992,83965 15,30462	3: 0
6	65684,89991,45750 13,15916,85254	87112,69359 30,70260	1 32622,09991 20,16900	9,81746,55425,0493 8,69968,8818	9,94008,14427 15,30388	3:36
7	65698,05908,31004 13,15716,72481	87143,39619 30,71195	1 32642,26891 20,17917	9,81755,25393,9311 8,69662,3793	9,94023,44815 15,30314	4:12
8	65711,21625,03485 13,15516,55699	87174,10814 30,72129	1 32662,44808 20,18935	9,81763,95056,3104 8,69355,9995	9,94038,75129 15,30241	4:48
9	65724,37141,59184 13,15316,34912	87204,82943 30,73064	1 32682,63743 20,19955	9,81772,64412,3099 8,69049,7425	9,94054,05370 15,30167	5:24
10	65737,52457,94096 13,15116,10116	87235,56007 30,74001	1 32702,83698 20,20974	9,81781,33462,0524 8,68743,6078	9,94069,35537 15,30094	6: 0
11	65750,67574,04212 13,14915,81315	87266,30008 30,74937	1 32723,04672 20,21994	9,81790,02205,6602 8,68437,5958	9,94084,65631 15,30021	6:36
12	65763,82489,85527 13,14715,48509	87297,04945 30,75874	1 32743,26666 20,23014	9,81798,70643,2560 8,68131,7060	9,94099,95652 15,29949	7:12
13	65776,97205,34036 13,14515,11697	87327,80819 30,76812	1 32763,49680 20,24036	9,81807,38774,9620 8,67825,9386	9,94115,25601 15,29876	7:48
14	65790,11720,45733 13,14314,70881	87358,57631 30,77750	1 32783,73716 20,25058	9,81816,06600,9006 8,67520,2932	9,94130,55477 15,29803	8:24
15	65803,26035,16614 13,14114,26063	87389,35381 30,78689	1 32803,98774 20,26080	9,81824,74121,1938 8,67214,7700	9,94145,85280 15,29731	9: 0
16	65816,40149,42677 13,13913,77239	87420,14070 30,79629	1 32824,24854 20,27103	9,81833,41335,9638 8,66909,3688	9,94161,15011 15,29660	9:36
17	65829,54063,19916 13,13713,24415	87450,93699 30,80569	1 32844,51957 20,28127	9,81842,08245,3326 8,66604,0894	9,94176,44671 15,29587	10:12
18	65842,67776,44331 13,13512,67589	87481,74268 30,81510	1 32864,80084 20,29151	9,81850,74849,4220 8,66298,9319	9,94191,74258 15,29516	10:48
19	65855,81289,11920 13,13312,06760	87512,55778 30,82451	1 32885,09235 20,30176	9,81859,41148,3539 8,65993,8961	9,94207,03774 15,29444	11:24
20	65868,94601,18680 13,13111,41933	87543,38229 30,83394	1 32905,39411 20,31201	9,81868,07142,2500 8,65688,9819	9,94222,33218 15,29374	12: 0
21	65882,07712,60613 13,12910,73104	87574,21623 30,84336	1 32925,70612 20,32227	9,81876,72831,2319 8,65384,1892	9,94237,62592 15,29302	12:36
22	65895,20623,33717 13,12710,00276	87605,05959 30,85279	1 32946,02839 20,33254	9,81885,38215,4211 8,65079,5181	9,94252,91894 15,29231	13:12
23	65908,33333,33993 13,12509,23450	87635,91238 30,86224	1 32966,36093 20,34281	9,81894,03294,9392 8,64774,9682	9,94268,21125 15,29161	13:48
24	65921,45842,57443 13,12308,42626	87666,77462 30,87168	1 32986,70374 20,35309	9,81902,68069,9074 8,64470,5396	9,94283,50286 15,29090	14:24
25	65934,58151,00069 13,12107,57803	87697,64630 30,88113	1 33007,05683 20,36337	9,81911,32540,4470 8,64166,2321	9,94298,79376 15,29020	15: 0
26	65947,70258,57872 13,11906,68985	87728,52743 30,89059	1 33027,42020 20,37366	9,81919,96706,6791 8,63862,0458	9,94314,08396 15,28949	15:36
27	65960,82165,26857 13,11705,76169	87759,41802 30,90006	1 33047,79386 20,38396	9,81928,60568,7249 8,63557,9805	9,94329,37345 15,28880	16:12
28	65973,93871,03026 13,11504,79358	87790,31808 30,90952	1 33068,17782 20,39426	9,81937,24126,7054 8,63254,0360	9,94344,66225 15,28811	16:48
29	65987,05375,82384 13,11303,78553	87821,22760 30,91901	1 33088,57208 20,40456	9,81945,87380,7414 8,62950,2124	9,94359,95036 15,28740	17:24
30	66000,16679,60937 13,11102,73752	87852,14661 30,92848	1 33108,97664 20,41488	9,81954,50330,9538 8,62646,5094	9,94375,23776 15,28672	18: 0
31	66013,27782,34689 13,10901,64957	87883,07509 30,93798	1 33129,39152 20,42520	9,81963,12977,4632 8,62342,9271	9,94390,52448 15,28602	18:36
32	66026,38683,99646 13,10700,52170	87914,01307 30,94747	1 33149,81672 20,43553	9,81971,75320,3903 8,62039,4653	9,94405,81050 15,28534	19:12
33	66039,49384,51816 13,10499,35390	87944,96054 30,95697	1 33170,25225 20,44585	9,81980,37359,8556 8,61736,1240	9,94421,09584 15,28464	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	75470,95802,22772 11,45153,95736	1 15036,84072 40,54192	1 52425,30867 30,59506	9,87777,98629,2565 6,59024,0707	10,06083,69461 15,30835	60: 0
99	75459,50648,27036 11,45383,82016	1 14996,29880 40,52565	1 52394,71361 30,57813	9,87771,39605,1858 6,59256,4039	10,06068,38626 15,30759	59:24
98	75448,05264,45020 11,45613,64808	1 14955,77315 40,50940	1 52364,13548 30,56123	9,87764,80348,7819 6,59488,8075	10,06053,07867 15,30685	58:48
97	75436,59650,80212 11,45843,44108	1 14915,26375 40,49315	1 52333,57425 30,54434	9,87758,20859,9744 6,59721,2818	10,06037,77182 15,30611	58:12
96	75425,13807,36104 11,46073,19920	1 14874,77060 40,47691	1 52303,02991 30,52744	9,87751,61138,6926 6,59953,8267	10,06022,46571 15,30536	57:36
95	75413,67734,16184 11,46302,92239	1 14834,29369 40,46069	1 52272,50247 30,51058	9,87745,01184,8659 6,60186,4422	10,06007,16035 15,30462	57: 0
94	75402,21431,23945 11,46532,61067	1 14793,83300 40,44449	1 52241,99189 30,49372	9,87738,40998,4237 6,60419,1286	10,05991,85573 15,30388	56:24
93	75390,74898,62878 11,46762,26403	1 14753,38851 40,42828	1 52211,49817 30,47687	9,87731,80579,2951 6,60651,8857	10,05976,55185 15,30314	55:48
92	75379,28136,36475 11,46991,88244	1 14712,96023 40,41210	1 52181,02130 30,46003	9,87725,19927,4094 6,60884,7136	10,05961,24871 15,30241	55:12
91	75367,81144,48231 11,47221,46593	1 14672,54813 40,39593	1 52150,56127 30,44321	9,87718,59042,6958 6,61117,6124	10,05945,94630 15,30167	54:36
90	75356,33923,01638 11,47451,01447	1 14632,15220 40,37976	1 52120,11806 30,42640	9,87711,97925,0834 6,61350,5822	10,05930,64463 15,30094	54: 0
89	75344,86472,00191 11,47680,52804	1 14591,77244 40,36362	1 52089,69166 30,40959	9,87705,36574,5012 6,61583,6228	10,05915,34369 15,30021	53:24
88	75333,38791,47387 11,47910,00667	1 14551,40882 40,34748	1 52059,28207 30,39281	9,87698,74990,8784 6,61816,7345	10,05900,04348 15,29949	52:48
87	75321,90881,46720 11,48139,45032	1 14511,06134 40,33136	1 52028,88926 30,37603	9,87692,13174,1439 6,62049,9172	10,05884,74399 15,29876	52:12
86	75310,42742,01688 11,48368,85901	1 14470,72998 40,31524	1 51998,51323 30,35927	9,87685,51124,2267 6,62283,1711	10,05869,44523 15,29803	51:36
85	75298,94373,15787 11,48598,23270	1 14430,41474 40,29915	1 51968,15396 30,34252	9,87678,88841,0556 6,62516,4961	10,05854,14720 15,29731	51: 0
84	75287,45774,92517 11,48827,57141	1 14390,11559 40,28305	1 51937,81144 30,32577	9,87672,26324,5595 6,62749,8923	10,05838,84989 15,29660	50:24
83	75275,96947,35376 11,49056,87513	1 14349,83254 40,26698	1 51907,48567 30,30905	9,87665,63574,6672 6,62983,3598	10,05823,55329 15,29587	49:48
82	75264,47890,47863 11,49286,14384	1 14309,56556 40,25092	1 51877,17662 30,29233	9,87659,00591,3074 6,63216,8985	10,05808,25742 15,29516	49:12
81	75252,98604,33479 11,49515,37755	1 14269,31464 40,23486	1 51846,88429 30,27562	9,87652,37374,4089 6,63450,5086	10,05792,96226 15,29444	48:36
80	75241,49088,95724 11,49744,57623	1 14229,07978 40,21882	1 51816,60867 30,25893	9,87645,73923,9003 6,63684,1900	10,05777,66782 15,29374	48: 0
79	75229,99344,38101 11,49973,73990	1 14188,86096 40,20280	1 51786,34974 30,24225	9,87639,10239,7103 6,63917,9430	10,05762,37408 15,29302	47:24
78	75218,49370,64111 11,50202,86853	1 14148,65816 40,18678	1 51756,10749 30,22558	9,87632,46321,7673 6,64151,7673	10,05747,08106 15,29231	46:48
77	75206,99167,77258 11,50431,96213	1 14108,47138 40,17078	1 51725,88191 30,20893	9,87625,82170,0000 6,64385,6633	10,05731,78875 15,29161	46:12
76	75195,48735,81045 11,50661,02068	1 14068,30060 40,15478	1 51695,67298 30,19227	9,87619,17784,3367 6,64619,6307	10,05716,49714 15,29090	45:36
75	75183,98074,78977 11,50890,04418	1 14028,14582 40,13881	1 51665,48071 30,17564	9,87612,53164,7060 6,64853,6698	10,05701,20624 15,29020	45: 0
74	75172,47184,74559 11,51119,03262	1 13988,00701 40,12284	1 51635,30507 30,15902	9,87605,88311,0362 6,65087,7806	10,05685,91604 15,28949	44:24
73	75160,96065,71297 11,51347,98601	1 13947,88417 40,10688	1 51605,14605 30,14241	9,87599,23223,2556 6,65321,9630	10,05670,62655 15,28880	43:48
72	75149,44717,72696 11,51576,90431	1 13907,77729 40,09094	1 51575,00364 30,12581	9,87592,57901,2926 6,65556,2174	10,05655,33775 15,28811	43:12
71	75137,93140,82265 11,51805,78754	1 13867,68635 40,07500	1 51544,87783 30,10923	9,87585,92345,0752 6,65790,5433	10,05640,04964 15,28740	42:36
70	75126,41335,03511 11,52034,63568	1 13827,61135 40,05909	1 51514,76860 30,09264	9,87579,26554,5319 6,66024,9413	10,05624,76224 15,28672	42: 0
69	75114,89300,39943 11,52263,44873	1 13787,55226 40,04317	1 51484,67596 30,07609	9,87572,60529,5906 6,66259,4111	10,05609,47552 15,28602	41:24
68	75103,37036,95070 11,52492,22667	1 13747,50909 40,02729	1 51454,59987 30,05953	9,87565,94270,1795 6,66493,9529	10,05594,18950 15,28534	40:48
67	75091,84544,72403 11,52720,96952	1 13707,48180 40,01139	1 51424,54034 30,04299	9,87559,27776,2266 6,66728,5666	10,05578,90416 15,28464	40:12

GRAD. 48.

41. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	66039,49384,51816 13,10499,35390	87944,96054 30,95697	1 33170,25225 20,44585	9,81980,37359,8556 8,61736,1240	9,94421,09584 15,28464	19:48
34	66052,59883,87206 13,10298,14618	87975,91751 30,96648	1 33190,69810 20,45620	9,81988,99095,9796 8,61432,9030	9,94436,38048 15,28396	20:24
35	66065,70182,01824 13,10096,89854	88006,88399 30,97600	1 33211,15430 20,46654	9,81997,60528,8826 8,61129,8024	9,94451,66444 15,28328	21: 0
36	66078,80278,91678 13,09895,61099	88037,85999 30,98551	1 33231,62084 20,47688	9,82006,21658,6850 8,60826,8218	9,94466,94772 15,28260	21:36
37	66091,90174,52777 13,09694,28356	88068,84550 30,99504	1 33252,09772 20,48725	9,82014,82485,5068 8,60523,9613	9,94482,23032 15,28192	22:12
38	66104,99868,81133 13,09492,91621	88099,84054 31,00458	1 33272,58497 20,49760	9,82023,43009,4681 8,60221,2209	9,94497,51224 15,28124	22:48
39	66118,09361,72754 13,09291,50898	88130,84512 31,01412	1 33293,08257 20,50798	9,82032,03230,6890 8,59918,6003	9,94512,79348 15,28056	23:24
40	66131,18653,23652 13,09090,06187	88161,85924 31,02366	1 33313,59055 20,51834	9,82040,63149,2893 8,59616,0996	9,94528,07404 15,27989	24: 0
41	66144,27743,29839 13,08888,57487	88192,88290 31,03321	1 33334,10889 20,52873	9,82049,22765,3889 8,59313,7186	9,94543,35393 15,27922	24:36
42	66157,36631,87326 13,08687,04802	88223,91611 31,04277	1 33354,63762 20,53911	9,82057,82079,1075 8,59011,4573	9,94558,63315 15,27855	25:12
43	66170,45318,92128 13,08485,48129	88254,95888 31,05234	1 33375,17673 20,54950	9,82066,41090,5648 8,58709,3154	9,94573,91170 15,27788	25:48
44	66183,53804,40257 13,08283,87470	88286,01122 31,06191	1 33395,72623 20,55990	9,82074,99799,8802 8,58407,2931	9,94589,18958 15,27721	26:24
45	66196,62088,27727 13,08082,22826	88317,07313 31,07148	1 33416,28613 20,57031	9,82083,58207,1733 8,58105,3900	9,94604,46679 15,27655	27: 0
46	66209,70170,50553 13,07880,54198	88348,14461 31,08107	1 33436,85644 20,58072	9,82092,16312,5633 8,57803,6064	9,94619,74334 15,27589	27:36
47	66222,78051,04751 13,07678,81586	88379,22568 31,09066	1 33457,43716 20,59113	9,82100,74116,1697 8,57501,9418	9,94635,01923 15,27522	28:12
48	66235,85729,86337 13,07477,04990	88410,31634 31,10026	1 33478,02829 20,60155	9,82109,31618,1115 8,57200,3964	9,94650,29445 15,27457	28:48
49	66248,93206,91327 13,07275,24410	88441,41660 31,10986	1 33498,62984 20,61198	9,82117,88818,5079 8,56898,9701	9,94665,56902 15,27391	29:24
50	66262,00482,15737 13,07073,39851	88472,52646 31,11946	1 33519,24182 20,62242	9,82126,45717,4780 8,56597,6625	9,94680,84293 15,27326	30: 0
51	66275,07555,55588 13,06871,51307	88503,64592 31,12909	1 33539,86424 20,63286	9,82135,02315,1405 8,56296,4739	9,94696,11619 15,27260	30:36
52	66288,14427,06895 13,06669,58784	88534,77501 31,13870	1 33560,49710 20,64330	9,82143,58611,6144 8,55995,4040	9,94711,38879 15,27196	31:12
53	66301,21096,65679 13,06467,62281	88565,91371 31,14833	1 33581,14040 20,65376	9,82152,14607,0184 8,55694,4527	9,94726,66075 15,27130	31:48
54	66314,27564,27960 13,06265,61797	88597,06204 31,15797	1 33601,79416 20,66421	9,82160,70301,4711 8,55393,6201	9,94741,93205 15,27066	32:24
55	66327,33829,89757 13,06063,57334	88628,22001 31,16761	1 33622,45837 20,67468	9,82169,25695,0912 8,55092,9059	9,94757,20271 15,27001	33: 0
56	66340,39893,47091 13,05861,48893	88659,38762 31,17725	1 33643,13305 20,68516	9,82177,80787,9971 8,54792,3101	9,94772,47272 15,26937	33:36
57	66353,45754,95984 13,05659,36474	88690,56487 31,18691	1 33663,81821 20,69562	9,82186,35580,3072 8,54491,8326	9,94787,74209 15,26873	34:12
58	66366,51414,32458 13,05457,20078	88721,75178 31,19657	1 33684,51383 20,70612	9,82194,90072,1398 8,54191,4734	9,94803,01082 15,26809	34:48
59	66379,56871,52536 13,05254,99706	88752,94835 31,20624	1 33705,21995 20,71660	9,82203,44263,6132 8,53891,2322	9,94818,27891 15,26745	35:24
60	66392,62126,52242 13,05052,75356	88784,15459 31,21590	1 33725,93655 20,72709	9,82211,98154,8454 8,53591,1091	9,94833,54636 15,26682	36: 0
61	66405,67179,27598 13,04850,47032	88815,37049 31,22559	1 33746,66364 20,73760	9,82220,51745,9545 8,53291,1039	9,94848,81318 15,26618	36:36
62	66418,72029,74630 13,04648,14732	88846,59608 31,23527	1 33767,40124 20,74811	9,82229,05037,0584 8,52991,2167	9,94864,07936 15,26555	37:12
63	66431,76677,89362 13,04445,78460	88877,83135 31,24497	1 33788,14935 20,75862	9,82237,58028,2751 8,52691,4472	9,94879,34491 15,26493	37:48
64	66444,81123,67822 13,04243,38212	88909,07632 31,25466	1 33808,90797 20,76914	9,82246,10719,7223 8,52391,7953	9,94894,60984 15,26429	38:24
65	66457,85367,06034 13,04040,93993	88940,33098 31,26437	1 33829,67711 20,77966	9,82254,63111,5176 8,52092,2611	9,94909,87413 15,26367	39: 0
66	66470,89408,00027 13,03838,45800	88971,59535 31,27408	1 33850,45677 20,79020	9,82263,15203,7787 8,51792,8445	9,94925,13780 15,26304	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	75091,84544,72403 11,52720,96952	1 13707,48180 40,01139	1 51424,54034 30,04299	9,87559,27776,2266 6,66728,5666	10,05578,90416 15,28464	40:12
66	75080,31823,75451 11,52949,67725	1 13667,47041 39,99553	1 51394,49735 30,02646	9,87552,61047,6600 6,66963,2525	10,05563,61952 15,28396	39:36
65	75068,78874,07726 11,53178,34985	1 13627,47488 39,97966	1 51364,47089 30,00994	9,87545,94084,4075 6,67198,0104	10,05548,33556 15,28328	39: 0
64	75057,25695,72741 11,53406,98733	1 13587,49522 39,96382	1 51334,46095 29,99344	9,87539,26886,3971 6,67432,8404	10,05533,05228 15,28260	38:24
63	75045,72288,74008 11,53635,58968	1 13547,53140 39,94798	1 51304,46751 29,97695	9,87532,59453,5567 6,67667,7427	10,05517,76968 15,28192	37:48
62	75034,18653,15040 11,53864,15687	1 13507,58342 39,93215	1 51274,49056 29,96046	9,87525,91785,8140 6,67902,7171	10,05502,48776 15,28124	37:12
61	75022,64788,99353 11,54092,68893	1 13467,65127 39,91634	1 51244,53010 29,94400	9,87519,23883,0969 6,68137,7639	10,05487,20652 15,28056	36:36
60	75011,10696,30460 11,54321,18583	1 13427,73493 39,90054	1 51214,58610 29,92753	9,87512,55745,3330 6,68372,8831	10,05471,92596 15,27989	36: 0
59	74999,56375,11877 11,54549,64757	1 13387,83439 39,88476	1 51184,65857 29,91109	9,87505,87372,4499 6,68608,0744	10,05456,64607 15,27922	35:24
58	74988,01825,47120 11,54778,07413	1 13347,94963 39,86897	1 51154,74748 29,89465	9,87499,18764,3755 6,68843,3384	10,05441,36685 15,27855	34:48
57	74976,47047,39707 11,55006,46552	1 13308,08066 39,85321	1 51124,85283 29,87823	9,87492,49921,0371 6,69078,6748	10,05426,08830 15,27788	34:12
56	74964,92040,93155 11,55234,82172	1 13268,22745 39,83745	1 51094,97460 29,86181	9,87485,80842,3623 6,69314,0837	10,05410,81042 15,27721	33:36
55	74953,36806,10983 11,55463,14275	1 13228,39000 39,82171	1 51065,11279 29,84541	9,87479,11528,2786 6,69549,5651	10,05395,53321 15,27655	33: 0
54	74941,81342,96708 11,55691,42855	1 13188,56829 39,80598	1 51035,26738 29,82903	9,87472,41978,7135 6,69785,1193	10,05380,25666 15,27589	32:24
53	74930,25651,53853 11,55919,67918	1 13148,76231 39,79026	1 51005,43835 29,81264	9,87465,72193,5942 6,70020,7460	10,05364,98077 15,27522	31:48
52	74918,69731,85935 11,56147,89457	1 13108,97205 39,77455	1 50975,62571 29,79628	9,87459,02172,8482 6,70256,4455	10,05349,70555 15,27457	31:12
51	74907,13583,96478 11,56376,07476	1 13069,19750 39,75886	1 50945,82943 29,77992	9,87452,31916,4027 6,70492,2177	10,05334,43098 15,27391	30:36
50	74895,57207,89002 11,56604,21972	1 13029,43864 39,74318	1 50916,04951 29,76358	9,87445,61424,1850 6,70728,0628	10,05319,15707 15,27326	30: 0
49	74884,00603,67030 11,56832,32944	1 12989,69546 39,72750	1 50886,28593 29,74725	9,87438,90696,1222 6,70963,9807	10,05303,88381 15,27260	29:24
48	74872,43771,34086 11,57060,40393	1 12949,96796 39,71185	1 50856,53868 29,73093	9,87432,19732,1415 6,71199,9715	10,05288,61121 15,27196	28:48
47	74860,86710,93693 11,57288,44317	1 12910,25611 39,69619	1 50826,80775 29,71462	9,87425,48532,1700 6,71436,0353	10,05273,33925 15,27130	28:12
46	74849,29422,49376 11,57516,44716	1 12870,55992 39,68056	1 50797,09313 29,69832	9,87418,77096,1347 6,71672,1721	10,05258,06795 15,27066	27:36
45	74837,71906,04660 11,57744,41589	1 12830,87936 39,66493	1 50767,39481 29,68203	9,87412,05423,9626 6,71908,3818	10,05242,79729 15,27001	27: 0
44	74826,14161,63071 11,57972,34935	1 12791,21443 39,64932	1 50737,71278 29,66576	9,87405,33515,5808 6,72144,6649	10,05227,52728 15,26937	26:24
43	74814,56189,28136 11,58200,24753	1 12751,56511 39,63372	1 50708,04702 29,64950	9,87398,61370,9159 6,72381,0209	10,05212,25791 15,26873	25:48
42	74802,97989,03383 11,58428,11045	1 12711,93139 39,61812	1 50678,39752 29,63325	9,87391,88989,8950 6,72617,4502	10,05196,98918 15,26809	25:12
41	74791,39560,92338 11,58655,93806	1 12672,31327 39,60255	1 50648,76427 29,61700	9,87385,16372,4448 6,72853,9527	10,05181,72109 15,26745	24:36
40	74779,80904,98532 11,58883,73039	1 12632,71072 39,58698	1 50619,14727 29,60077	9,87378,43518,4921 6,73090,5285	10,05166,45364 15,26682	24: 0
39	74768,22021,25493 11,59111,48741	1 12593,12374 39,57142	1 50589,54650 29,58456	9,87371,70427,9636 6,73327,1777	10,05151,18682 15,26618	23:24
38	74756,62909,76752 11,59339,20912	1 12553,55232 39,55588	1 50559,96194 29,56835	9,87364,97100,7859 6,73563,9002	10,05135,92064 15,26555	22:48
37	74745,03570,55840 11,59566,89552	1 12513,99644 39,54035	1 50530,39359 29,55216	9,87358,23536,8857 6,73800,6963	10,05120,65509 15,26493	22:12
36	74733,44003,66288 11,59794,54660	1 12474,45609 39,52483	1 50500,84143 29,53597	9,87351,49736,1894 6,74037,5657	10,05105,39016 15,26429	21:36
35	74721,84209,11628 11,60022,16235	1 12434,93126 39,50932	1 50471,30546 29,51980	9,87344,75698,6237 6,74274,5087	10,05090,12587 15,26367	21: 0
34	74710,24186,95393 11,60249,74275	1 12395,42194 39,49382	1 50441,78566 29,50363	9,87338,01424,1150 6,74511,5253	10,05074,86220 15,26304	20:24

GRAD. 48.

41. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	66483,93246,45827	89002,86943	1 33871,24697	9,82271,66996,6232	9,94940,40084	40:12
	13,03635,93636	31,28379	20,80074	8,51493,5451	15,26242	
68	66496,96882,39463	89034,15322	1 33892,04771	9,82280,18490,1683	9,94955,66326	40:48
	13,03433,37502	31,29353	20,81128	8,51194,3633	15,26180	
69	66510,00315,76965	89065,44675	1 33912,85899	9,82288,69684,5316	9,94970,92506	41:24
	13,03230,77396	31,30325	20,82184	8,50895,2985	15,26119	
70	66523,03546,54361	89096,75000	1 33933,68083	9,82297,20579,8301	9,94986,18625	42: 0
	13,03028,13320	31,31299	20,83239	8,50596,3511	15,26056	
71	66536,06574,67681	89128,06299	1 33954,51322	9,82305,71176,1812	9,95001,44681	42:36
	13,02825,45276	31,32273	20,84295	8,50297,5206	15,25996	
72	66549,09400,12957	89159,38572	1 33975,35617	9,82314,21473,7018	9,95016,70677	43:12
	13,02622,73263	31,33248	20,85353	8,49998,8072	15,25934	
73	66562,12022,86220	89190,71820	1 33996,20970	9,82322,71472,5090	9,95031,96611	43:48
	13,02419,97282	31,34224	20,86410	8,49700,2106	15,25872	
74	66575,14442,83502	89222,06044	1 34017,07380	9,82331,21172,7196	9,95047,22483	44:24
	13,02217,17332	31,35200	20,87468	8,49401,7310	15,25813	
75	66588,16660,00834	89253,41244	1 34037,94848	9,82339,70574,4506	9,95062,48296	45: 0
	13,02014,33418	31,36177	20,88527	8,49103,3679	15,25751	
76	66601,18674,34252	89284,77421	1 34058,83375	9,82348,19677,8185	9,95077,74047	45:36
	13,01811,45535	31,37155	20,89586	8,48805,1216	15,25691	
77	66614,20485,79787	89316,14576	1 34079,72961	9,82356,68482,9401	9,95092,99738	46:12
	13,01608,53689	31,38133	20,90647	8,48506,9918	15,25630	
78	66627,22094,33476	89347,52709	1 34100,63608	9,82365,16989,9319	9,95108,25368	46:48
	13,01405,57876	31,39111	20,91707	8,48208,9785	15,25571	
79	66640,23499,91352	89378,91820	1 34121,55315	9,82373,65198,9104	9,95123,50939	47:24
	13,01202,58100	31,40092	20,92768	8,47911,0816	15,25510	
80	66653,24702,49452	89410,31912	1 34142,48083	9,82382,13109,9920	9,95138,76449	48: 0
	13,00999,54361	31,41071	20,93831	8,47613,3010	15,25451	
81	66666,25702,03813	89441,72983	1 34163,41914	9,82390,60723,2930	9,95154,01900	48:36
	13,00796,46656	31,42052	20,94893	8,47315,6366	15,25391	
82	66679,26498,50469	89473,15035	1 34184,36807	9,82399,08038,9296	9,95169,27291	49:12
	13,00593,34992	31,43034	20,95956	8,47018,0882	15,25332	
83	66692,27091,85461	89504,58069	1 34205,32763	9,82407,55057,0178	9,95184,52623	49:48
	13,00390,19363	31,44016	20,97020	8,46720,6561	15,25273	
84	66705,27482,04824	89536,02085	1 34226,29783	9,82416,01777,6739	9,95199,77896	50:24
	13,00186,99776	31,44999	20,98085	8,46423,3397	15,25214	
85	66718,27669,04600	89567,47084	1 34247,27868	9,82424,48201,0136	9,95215,03110	51: 0
	12,99983,76226	31,45982	20,99149	8,46126,1393	15,25155	
86	66731,27652,80826	89598,93066	1 34268,27017	9,82432,94327,1529	9,95230,28265	51:36
	12,99780,48716	31,46966	21,00216	8,45829,0547	15,25096	
87	66744,27433,29542	89630,40032	1 34289,27233	9,82441,40156,2076	9,95245,53361	52:12
	12,99577,17248	31,47951	21,01281	8,45532,0858	15,25038	
88	66757,27010,46790	89661,87983	1 34310,28514	9,82449,85688,2934	9,95260,78399	52:48
	12,99373,81821	31,48936	21,02349	8,45235,2324	15,24980	
89	66770,26384,28611	89693,36919	1 34331,30863	9,82458,30923,5258	9,95276,03379	53:24
	12,99170,42436	31,49923	21,03416	8,44938,4947	15,24922	
90	66783,25554,71047	89724,86842	1 34352,34279	9,82466,75862,0205	9,95291,28301	54: 0
	12,98966,99092	31,50909	21,04484	8,44641,8722	15,24864	
91	66796,24521,70139	89756,37751	1 34373,38763	9,82475,20503,8927	9,95306,53165	54:36
	12,98763,51793	31,51896	21,05553	8,44345,3653	15,24806	
92	66809,23285,21932	89787,89647	1 34394,44316	9,82483,64849,2580	9,95321,77971	55:12
	12,98560,00536	31,52885	21,06623	8,44048,9735	15,24749	
93	66822,21845,22468	89819,42532	1 34415,50939	9,82492,08898,2315	9,95337,02720	55:48
	12,98356,45325	31,53873	21,07693	8,43752,6970	15,24692	
94	66835,20201,67793	89850,96405	1 34436,58632	9,82500,52650,9285	9,95352,27412	56:24
	12,98152,86158	31,54862	21,08763	8,43456,5355	15,24635	
95	66848,18354,53951	89882,51267	1 34457,67395	9,82508,96107,4640	9,95367,52047	57: 0
	12,97949,23037	31,55853	21,09835	8,43160,4891	15,24577	
96	66861,16303,76988	89914,07120	1 34478,77230	9,82517,39267,9531	9,95382,76624	57:36
	12,97745,55962	31,56843	21,10907	8,42864,5576	15,24521	
97	66874,14049,32950	89945,63963	1 34499,88137	9,82525,82132,5107	9,95398,01145	58:12
	12,97541,84934	31,57835	21,11980	8,42568,7410	15,24465	
98	66887,11591,17884	89977,21798	1 34521,00117	9,82534,24701,2517	9,95413,25610	58:48
	12,97338,09953	31,58826	21,13052	8,42273,0390	15,24408	
99	66900,08929,27837	90008,80624	1 34542,13169	9,82542,66974,2907	9,95428,50018	59:24
	12,97134,31021	31,59819	21,14127	8,41977,4518	15,24352	
100	66913,06063,58858	90040,40443	1 34563,27296	9,82551,08951,7425	9,95443,74370	60: 0
	12,96930,48137	31,60812	21,15201	8,41681,9792	15,24297	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	74698,63937,21118	1 12355,92812	1 50412,28203	9,87331,26912,5897	10,05059,59916	19:48
	11,60477,28783	39,47833	29,48749	6,74748,6156	15,26242	
32	74687,03459,92335	1 12316,44979	1 50382,79454	9,87324,52163,9741	10,05044,33674	19:12
	11,60704,79754	39,46286	29,47135	6,74985,7795	15,26180	
31	74675,42755,12581	1 12276,98693	1 50353,32319	9,87317,77178,1946	10,05029,07494	18:36
	11,60932,27190	39,44740	29,45522	6,75223,0171	15,26119	
30	74663,81822,85391	1 12237,53953	1 50323,86797	9,87311,01955,1775	10,05013,81375	18: 0
	11,61159,71089	39,43194	29,43911	6,75460,3286	15,26056	
29	74652,20663,14302	1 12198,10759	1 50294,42886	9,87304,26494,8489	10,04998,55319	17:24
	11,61387,11452	39,41651	29,42300	6,75697,7138	15,25996	
28	74640,59276,02850	1 12158,69108	1 50265,00586	9,87297,50797,1351	10,04983,29323	16:48
	11,61614,48277	39,40107	29,40691	6,75935,1730	15,25934	
27	74628,97661,54573	1 12119,29001	1 50235,59895	9,87290,74861,9621	10,04968,03389	16:12
	11,61841,81563	39,38566	29,39082	6,76172,7061	15,25872	
26	74617,35819,73010	1 12079,90435	1 50206,20813	9,87283,98689,2560	10,04952,77517	15:36
	11,62069,11310	39,37025	29,37476	6,76410,3131	15,25813	
25	74605,73750,61700	1 12040,53410	1 50176,83337	9,87277,22278,9429	10,04937,51704	15: 0
	11,62296,37518	39,35486	29,35869	6,76647,9941	15,25751	
24	74594,11454,24182	1 12001,17924	1 50147,47468	9,87270,45630,9488	10,04922,25953	14:24
	11,62523,60184	39,33947	29,34265	6,76885,7494	15,25691	
23	74582,48930,63998	1 11961,83977	1 50118,13203	9,87263,68745,1994	10,04907,00262	13:48
	11,62750,79309	39,32410	29,32661	6,77123,5785	15,25630	
22	74570,86179,84689	1 11922,51567	1 50088,80542	9,87256,91621,6209	10,04891,74632	13:12
	11,62977,94893	39,30875	29,31058	6,77361,4821	15,25571	
21	74559,23201,89796	1 11883,20692	1 50059,49484	9,87250,14260,1388	10,04876,49061	12:36
	11,63205,06934	39,29339	29,29457	6,77599,4597	15,25510	
20	74547,59996,82862	1 11843,91353	1 50030,20027	9,87243,36660,6791	10,04861,23551	12: 0
	11,63432,15431	39,27805	29,27856	6,77837,5116	15,25451	
19	74535,96564,67431	1 11804,63548	1 50000,92171	9,87236,58823,1675	10,04845,98100	11:24
	11,63659,20385	39,26273	29,26257	6,78075,6379	15,25391	
18	74524,32905,47046	1 11765,37275	1 49971,65914	9,87229,80747,5296	10,04830,72709	10:48
	11,63886,21793	39,24742	29,24659	6,78313,8385	15,25332	
17	74512,69019,25253	1 11726,12533	1 49942,41255	9,87223,02433,6911	10,04815,47377	10:12
	11,64113,19657	39,23211	29,23062	6,78552,1136	15,25273	
16	74501,04906,05596	1 11686,89322	1 49913,18193	9,87216,23881,5775	10,04800,22104	9:36
	11,64340,13974	39,21682	29,21466	6,78790,4631	15,25214	
15	74489,40565,91622	1 11647,67640	1 49883,96727	9,87209,45091,1144	10,04784,96890	9: 0
	11,64567,04745	39,20154	29,19871	6,79028,8871	15,25155	
14	74477,75998,86877	1 11608,47486	1 49854,76856	9,87202,66062,2273	10,04769,71735	8:24
	11,64793,91967	39,18627	29,18277	6,79267,3858	15,25096	
13	74466,11204,94910	1 11569,28859	1 49825,58579	9,87195,86794,8415	10,04754,46639	7:48
	11,65020,75643	39,17101	29,16685	6,79505,9589	15,25038	
12	74454,46184,19267	1 11530,11758	1 49796,41894	9,87189,07288,8826	10,04739,21601	7:12
	11,65247,55768	39,15576	29,15093	6,79744,6069	15,24980	
11	74442,80936,63499	1 11490,96182	1 49767,26801	9,87182,27544,2757	10,04723,96621	6:36
	11,65474,32345	39,14053	29,13503	6,79983,3294	15,24922	
10	74431,15462,31154	1 11451,82129	1 49738,13298	9,87175,47560,9463	10,04708,71699	6: 0
	11,65701,05371	39,12531	29,11913	6,80222,1268	15,24864	
9	74419,49761,25783	1 11412,69598	1 49709,01385	9,87168,67338,8195	10,04693,46835	5:24
	11,65927,74846	39,11009	29,10326	6,80460,9990	15,24806	
8	74407,83833,50937	1 11373,58589	1 49679,91059	9,87161,86877,8205	10,04678,22029	4:48
	11,66154,40771	39,09489	29,08738	6,80699,9461	15,24749	
7	74396,17679,10166	1 11334,49100	1 49650,82321	9,87155,06177,8744	10,04662,97280	4:12
	11,66381,03141	39,07970	29,07152	6,80938,9680	15,24692	
6	74384,51298,07025	1 11295,41130	1 49621,75169	9,87148,25238,9064	10,04647,72588	3:36
	11,66607,61960	39,06452	29,05568	6,81178,0650	15,24635	
5	74372,84690,45065	1 11256,34678	1 49592,69601	9,87141,44060,8414	10,04632,47953	3: 0
	11,66834,17224	39,04935	29,03984	6,81417,2369	15,24577	
4	74361,17856,27841	1 11217,29743	1 49563,65617	9,87134,62643,6045	10,04617,23376	2:24
	11,67060,68935	39,03419	29,02401	6,81656,4839	15,24521	
3	74349,50795,58906	1 11178,26324	1 49534,63216	9,87127,80987,1206	10,04601,98855	1:48
	11,67287,17090	39,01905	29,00819	6,81895,8061	15,24465	
2	74337,83508,41816	1 11139,24419	1 49505,62397	9,87120,99091,3145	10,04586,74390	1:12
	11,67513,61689	39,00392	28,99239	6,82135,2033	15,24408	
1	74326,15994,80127	1 11100,24027	1 49476,63158	9,87114,16956,1112	10,04571,49982	0:36
	11,67740,02733	38,98879	28,97659	6,82374,6759	15,24352	
0	74314,48254,77394	1 11061,25148	1 49447,65499	9,87107,34581,4353	10,04556,25630	0: 0
	11,67966,40218	38,97368	28,96082	6,82614,2236	15,24297	

GRAD. 48.

42. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	66913,06063,58858 12,96930,48137	90040,40443 31,60812	1 34563,27296 21,15201	9,82551,08951,7425 8,41681,9792	9,95443,74370 15,24297	0: 0
1	66926,02994,06995 12,96726,61303	90072,01255 31,61807	1 34584,42497 21,16277	9,82559,50633,7217 8,41386,6210	9,95458,98667 15,24240	0:36
2	66938,99720,68298 12,96522,70518	90103,63062 31,62800	1 34605,58774 21,17352	9,82567,92020,3427 8,41091,3773	9,95474,22907 15,24185	1:12
3	66951,96243,38816 12,96318,75783	90135,25862 31,63797	1 34626,76126 21,18429	9,82576,33111,7200 8,40796,2480	9,95489,47092 15,24129	1:48
4	66964,92562,14599 12,96114,77102	90166,89659 31,64792	1 34647,94555 21,19505	9,82584,73907,9680 8,40501,2328	9,95504,71221 15,24075	2:24
5	66977,88676,91701 12,95910,74470	90198,54451 31,65788	1 34669,14060 21,20584	9,82593,14409,2008 8,40206,3319	9,95519,95296 15,24019	3: 0
6	66990,84587,66171 12,95706,67891	90230,20239 31,66786	1 34690,34644 21,21662	9,82601,54615,5327 8,39911,5450	9,95535,19315 15,23965	3:36
7	67003,80294,34062 12,95502,57366	90261,87025 31,67784	1 34711,56306 21,22741	9,82609,94527,0777 8,39616,8722	9,95550,43280 15,23910	4:12
8	67016,75796,91428 12,95298,42894	90293,54809 31,68783	1 34732,79047 21,23820	9,82618,34143,9499 8,39322,3132	9,95565,67190 15,23856	4:48
9	67029,71095,34322 12,95094,24477	90325,23592 31,69781	1 34754,02867 21,24901	9,82626,73466,2631 8,39027,8681	9,95580,91046 15,23801	5:24
10	67042,66189,58799 12,94890,02114	90356,93373 31,70782	1 34775,27768 21,25982	9,82635,12494,1312 8,38733,5367	9,95596,14847 15,23747	6: 0
11	67055,61079,60913 12,94685,75807	90388,64155 31,71782	1 34796,53750 21,27063	9,82643,51227,6679 8,38439,3189	9,95611,38594 15,23694	6:36
12	67068,55765,36720 12,94481,45556	90420,35937 31,72784	1 34817,80813 21,28146	9,82651,89666,9868 8,38145,2149	9,95626,62288 15,23640	7:12
13	67081,50246,82276 12,94277,11362	90452,08721 31,73785	1 34839,08959 21,29228	9,82660,27812,2017 8,37851,2242	9,95641,85928 15,23586	7:48
14	67094,44523,93638 12,94072,73225	90483,82506 31,74788	1 34860,38187 21,30312	9,82668,65663,4259 8,37557,3470	9,95657,09514 15,23533	8:24
15	67107,38596,66863 12,93868,31146	90515,57294 31,75792	1 34881,68499 21,31396	9,82677,03220,7729 8,37263,5831	9,95672,33047 15,23481	9: 0
16	67120,32464,98009 12,93663,85127	90547,33086 31,76795	1 34902,99895 21,32481	9,82685,40484,3560 8,36969,9325	9,95687,56528 15,23427	9:36
17	67133,26128,83136 12,93459,35165	90579,09881 31,77800	1 34924,32376 21,33566	9,82693,77454,2885 8,36676,3950	9,95702,79955 15,23374	10:12
18	67146,19588,18301 12,93254,81265	90610,87681 31,78805	1 34945,65942 21,34652	9,82702,14130,6835 8,36382,9706	9,95718,03329 15,23322	10:48
19	67159,12842,99566 12,93050,23424	90642,66486 31,79811	1 34967,00594 21,35739	9,82710,50513,6541 8,36089,6591	9,95733,26651 15,23270	11:24
20	67172,05893,22990 12,92845,61645	90674,46297 31,80817	1 34988,36333 21,36826	9,82718,86603,3132 8,35796,4607	9,95748,49921 15,23217	12: 0
21	67184,98738,84635 12,92640,95928	90706,27114 31,81825	1 35009,73159 21,37915	9,82727,22399,7739 8,35503,3750	9,95763,73138 15,23166	12:36
22	67197,91379,80563 12,92436,26272	90738,08939 31,82833	1 35031,11074 21,39003	9,82735,57903,1489 8,35210,4021	9,95778,96304 15,23114	13:12
23	67210,83816,06835 12,92231,52681	90769,91772 31,83842	1 35052,50077 21,40092	9,82743,93113,5510 8,34917,5419	9,95794,19418 15,23062	13:48
24	67223,76047,59516 12,92026,75152	90801,75614 31,84851	1 35073,90169 21,41182	9,82752,28031,0929 8,34624,7941	9,95809,42480 15,23011	14:24
25	67236,68074,34668 12,91821,93688	90833,60465 31,85860	1 35095,31351 21,42273	9,82760,62655,8870 8,34332,1590	9,95824,65491 15,22960	15: 0
26	67249,59896,28356 12,91617,08289	90865,46325 31,86872	1 35116,73624 21,43364	9,82768,96988,0460 8,34039,6363	9,95839,88451 15,22908	15:36
27	67262,51513,36645 12,91412,18955	90897,33197 31,87883	1 35138,16988 21,44456	9,82777,31027,6823 8,33747,2258	9,95855,11359 15,22858	16:12
28	67275,42925,55600 12,91207,25687	90929,21080 31,88894	1 35159,61444 21,45549	9,82785,64774,9081 8,33454,9276	9,95870,34217 15,22807	16:48
29	67288,34132,81287 12,91002,28486	90961,09974 31,89908	1 35181,06993 21,46641	9,82793,98229,8357 8,33162,7417	9,95885,57024 15,22757	17:24
30	67301,25135,09773 12,90797,27353	90992,99882 31,90921	1 35202,53634 21,47736	9,82802,31392,5774 8,32870,6677	9,95900,79781 15,22707	18: 0
31	67314,15932,37126 12,90592,22288	91024,90803 31,91934	1 35224,01370 21,48830	9,82810,64263,2451 8,32578,7058	9,95916,02488 15,22656	18:36
32	67327,06524,59414 12,90387,13290	91056,82737 31,92950	1 35245,50200 21,49925	9,82818,96841,9509 8,32286,8558	9,95931,25144 15,22607	19:12
33	67339,96911,72704 12,90182,00363	91088,75687 31,93965	1 35267,00125 21,51021	9,82827,29128,8067 8,31995,1176	9,95946,47751 15,22557	19:48

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	74314,48254,77394 11,67966,40218	1 11061,25148 38,97368	1 49447,65499 28,96082	9,87107,34581,4353 6,82614,2236	10,04556,25630 15,24297	60: 0
99	74302,80288,37176 11,68192,74146	1 11022,27780 38,95857	1 49418,69417 28,94504	9,87100,51967,2117 6,82853,8467	10,04541,01333 15,24240	59:24
98	74291,12095,63030 11,68419,04516	1 10983,31923 38,94349	1 49389,74913 28,92928	9,87093,69113,3650 6,83093,5452	10,04525,77093 15,24185	58:48
97	74279,43676,58514 11,68645,31326	1 10944,37574 38,92841	1 49360,81985 28,91352	9,87086,86019,8198 6,83333,3190	10,04510,52908 15,24129	58:12
96	74267,75031,27188 11,68871,54577	1 10905,44733 38,91335	1 49331,90633 28,89779	9,87080,02686,5008 6,83573,1684	10,04495,28779 15,24075	57:36
95	74256,06159,72611 11,69097,74266	1 10866,53398 38,89828	1 49303,00854 28,88207	9,87073,19113,3324 6,83813,0932	10,04480,04704 15,24019	57: 0
94	74244,37061,98345 11,69323,90395	1 10827,63570 38,88324	1 49274,12647 28,86634	9,87066,35300,2392 6,84053,0936	10,04464,80685 15,23965	56:24
93	74232,67738,07950 11,69550,02962	1 10788,75246 38,86821	1 49245,26013 28,85064	9,87059,51247,1456 6,84293,1697	10,04449,56720 15,23910	55:48
92	74220,98188,04988 11,69776,11966	1 10749,88425 38,85318	1 49216,40949 28,83494	9,87052,66953,9759 6,84533,3213	10,04434,32810 15,23856	55:12
91	74209,28411,93022 11,70002,17406	1 10711,03107 38,83817	1 49187,57455 28,81926	9,87045,82420,6546 6,84773,5488	10,04419,08954 15,23801	54:36
90	74197,58409,75616 11,70228,19282	1 10672,19290 38,82317	1 49158,75529 28,80358	9,87038,97647,1058 6,85013,8520	10,04403,85153 15,23747	54: 0
89	74185,88181,56334 11,70454,17595	1 10633,36973 38,80818	1 49129,95171 28,78792	9,87032,12633,2538 6,85254,2310	10,04388,61406 15,23694	53:24
88	74174,17727,38739 11,70680,12341	1 10594,56155 38,79320	1 49101,16379 28,77227	9,87025,27379,0228 6,85494,6858	10,04373,37712 15,23640	52:48
87	74162,47047,26398 11,70906,03521	1 10555,76835 38,77824	1 49072,39152 28,75662	9,87018,41884,3370 6,85735,2166	10,04358,14072 15,23586	52:12
86	74150,76141,22877 11,71131,91135	1 10516,99011 38,76327	1 49043,63490 28,74100	9,87011,56149,1204 6,85975,8234	10,04342,90486 15,23533	51:36
85	74139,05009,31742 11,71357,75181	1 10478,22684 38,74833	1 49014,89390 28,72537	9,87004,70173,2970 6,86216,5062	10,04327,66953 15,23481	51: 0
84	74127,33651,56561 11,71583,55659	1 10439,47851 38,73340	1 48986,16853 28,70977	9,86997,83956,7908 6,86457,2650	10,04312,43472 15,23427	50:24
83	74115,62068,00902 11,71809,32568	1 10400,74511 38,71847	1 48957,45876 28,69416	9,86990,97499,5258 6,86698,1000	10,04297,20045 15,23374	49:48
82	74103,90258,68334 11,72035,05907	1 10362,02664 38,70356	1 48928,76460 28,67858	9,86984,10801,4258 6,86939,0111	10,04281,96671 15,23322	49:12
81	74092,18223,62427 11,72260,75677	1 10323,32308 38,68866	1 48900,08602 28,66301	9,86977,23862,4147 6,87179,9985	10,04266,73349 15,23270	48:36
80	74080,45962,86750 11,72486,41875	1 10284,63442 38,67376	1 48871,42301 28,64743	9,86970,36682,4162 6,87421,0622	10,04251,50079 15,23217	48: 0
79	74068,73476,44875 11,72712,04502	1 10245,96066 38,65889	1 48842,77558 28,63188	9,86963,49261,3540 6,87662,2021	10,04236,26862 15,23166	47:24
78	74057,00764,40373 11,72937,63557	1 10207,30177 38,64401	1 48814,14370 28,61634	9,86956,61599,1519 6,87903,4185	10,04221,03696 15,23114	46:48
77	74045,27826,76816 11,73163,19038	1 10168,65776 38,62916	1 48785,52736 28,60080	9,86949,73695,7334 6,88144,7112	10,04205,80582 15,23062	46:12
76	74033,54663,57778 11,73388,70946	1 10130,02860 38,61432	1 48756,92656 28,58528	9,86942,85551,0222 6,88386,0805	10,04190,57520 15,23011	45:36
75	74021,81274,86832 11,73614,19279	1 10091,41428 38,59947	1 48728,34128 28,56977	9,86935,97164,9417 6,88627,5263	10,04175,34509 15,22960	45: 0
74	74010,07660,67553 11,73839,64039	1 10052,81481 38,58465	1 48699,77151 28,55426	9,86929,08537,4154 6,88869,0486	10,04160,11549 15,22908	44:24
73	73998,33821,03514 11,74065,05220	1 10014,23016 38,56984	1 48671,21725 28,53878	9,86922,19668,3668 6,89110,6477	10,04144,88641 15,22858	43:48
72	73986,59755,98294 11,74290,42828	1 09975,66032 38,55503	1 48642,67847 28,52329	9,86915,30557,7191 6,89352,3233	10,04129,65783 15,22807	43:12
71	73974,85465,55466 11,74515,76856	1 09937,10529 38,54024	1 48614,15518 28,50782	9,86908,41205,3958 6,89594,0757	10,04114,42976 15,22757	42:36
70	73963,10949,78610 11,74741,07308	1 09898,56505 38,52545	1 48585,64736 28,49237	9,86901,51611,3201 6,89835,9049	10,04099,20219 15,22707	42: 0
69	73951,36208,71302 11,74966,34182	1 09860,03960 38,51069	1 48557,15499 28,47691	9,86894,61775,4152 6,90077,8109	10,04083,97512 15,22656	41:24
68	73939,61242,37120 11,75191,57475	1 09821,52891 38,49593	1 48528,67808 28,46148	9,86887,71697,6043 6,90319,7939	10,04068,74856 15,22607	40:48
67	73927,86050,79645 11,75416,77189	1 09783,03298 38,48117	1 48500,21660 28,44605	9,86880,81377,8104 6,90561,8537	10,04053,52249 15,22557	40:12

GRAD. 47.

42. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	67339,96911,72704 12,90182,00363	91088,75687 31,93965	1 35267,00125 21,51021	9,82827,29128,8067 8,31995,1176	9,95946,47751 15,22557	19:48
34	67352,87093,73067 12,89976,83506	91120,69652 31,94981	1 35288,51146 21,52118	9,82835,61123,9243 8,31703,4913	9,95961,70308 15,22507	20:24
35	67365,77070,56573 12,89771,62718	91152,64633 31,95998	1 35310,03264 21,53215	9,82843,92827,4156 8,31411,9765	9,95976,92815 15,22459	21: 0
36	67378,66842,19291 12,89566,38002	91184,60631 31,97015	1 35331,56479 21,54312	9,82852,24239,3921 8,31120,5734	9,95992,15274 15,22409	21:36
37	67391,56408,57293 12,89361,09358	91216,57646 31,98033	1 35353,10791 21,55411	9,82860,55359,9655 8,30829,2818	9,96007,37683 15,22360	22:12
38	67404,45769,66651 12,89155,76786	91248,55679 31,99052	1 35374,66202 21,56510	9,82868,86189,2473 8,30538,1016	9,96022,60043 15,22311	22:48
39	67417,34925,43437 12,88950,40286	91280,54731 32,00072	1 35396,22712 21,57610	9,82877,16727,3489 8,30247,0328	9,96037,82354 15,22263	23:24
40	67430,23875,83723 12,88744,99862	91312,54803 32,01092	1 35417,80322 21,58710	9,82885,46974,3817 8,29956,0752	9,96053,04617 15,22215	24: 0
41	67443,12620,83585 12,88539,55511	91344,55895 32,02112	1 35439,39032 21,59811	9,82893,76930,4569 8,29665,2288	9,96068,26832 15,22166	24:36
42	67456,01160,39096 12,88334,07234	91376,58007 32,03134	1 35460,98843 21,60913	9,82902,06595,6857 8,29374,4936	9,96083,48998 15,22118	25:12
43	67468,89494,46330 12,88128,55034	91408,61141 32,04157	1 35482,59756 21,62015	9,82910,35970,1793 8,29083,8692	9,96098,71116 15,22071	25:48
44	67481,77623,01364 12,87922,98909	91440,65298 32,05179	1 35504,21771 21,63118	9,82918,65054,0485 8,28793,3560	9,96113,93187 15,22023	26:24
45	67494,65546,00273 12,87717,38861	91472,70477 32,06203	1 35525,84889 21,64222	9,82926,93847,4045 8,28502,9535	9,96129,15210 15,21975	27: 0
46	67507,53263,39134 12,87511,74892	91504,76680 32,07227	1 35547,49111 21,65326	9,82935,22350,3580 8,28212,6618	9,96144,37185 15,21929	27:36
47	67520,40775,14026 12,87306,06998	91536,83907 32,08252	1 35569,14437 21,66432	9,82943,50563,0198 8,27922,4808	9,96159,59114 15,21881	28:12
48	67533,28081,21024 12,87100,35186	91568,92159 32,09277	1 35590,80869 21,67537	9,82951,78485,5006 8,27632,4105	9,96174,80995 15,21834	28:48
49	67546,15181,56210 12,86894,59450	91601,01436 32,10304	1 35612,48406 21,68643	9,82960,06117,9111 8,27342,4507	9,96190,02829 15,21788	29:24
50	67559,02076,15660 12,86688,79796	91633,11740 32,11331	1 35634,17049 21,69750	9,82968,33460,3618 8,27052,6012	9,96205,24617 15,21741	30: 0
51	67571,88764,95456 12,86482,96223	91665,23071 32,12359	1 35655,86799 21,70858	9,82976,60512,9630 8,26762,8623	9,96220,46358 15,21695	30:36
52	67584,75247,91679 12,86277,08729	91697,35430 32,13387	1 35677,57657 21,71967	9,82984,87275,8253 8,26473,2336	9,96235,68053 15,21649	31:12
53	67597,61525,00408 12,86071,17318	91729,48817 32,14416	1 35699,29624 21,73075	9,82993,13749,0589 8,26183,7151	9,96250,89702 15,21603	31:48
54	67610,47596,17726 12,85865,21989	91761,63233 32,15446	1 35721,02699 21,74185	9,83001,39932,7740 8,25894,3067	9,96266,11305 15,21558	32:24
55	67623,33461,39715 12,85659,22744	91793,78679 32,16476	1 35742,76884 21,75296	9,83009,65827,0807 8,25605,0084	9,96281,32863 15,21511	33: 0
56	67636,19120,62459 12,85453,19582	91825,95155 32,17508	1 35764,52180 21,76406	9,83017,91432,0891 8,25315,8201	9,96296,54374 15,21467	33:36
57	67649,04573,82041 12,85247,12504	91858,12663 32,18539	1 35786,28586 21,77518	9,83026,16747,9092 8,25026,7416	9,96311,75841 15,21421	34:12
58	67661,89820,94545 12,85041,01512	91890,31202 32,19572	1 35808,06104 21,78630	9,83034,41774,6508 8,24737,7730	9,96326,97262 15,21376	34:48
59	67674,74861,96057 12,84834,86604	91922,50774 32,20605	1 35829,84734 21,79744	9,83042,66512,4238 8,24448,9141	9,96342,18638 15,21332	35:24
60	67687,59696,82661 12,84628,67783	91954,71379 32,21639	1 35851,64478 21,80857	9,83050,90961,3379 8,24160,1649	9,96357,39970 15,21287	36: 0
61	67700,44325,50444 12,84422,45048	91986,93018 32,22674	1 35873,45335 21,81971	9,83059,15121,5028 8,23871,5252	9,96372,61257 15,21242	36:36
62	67713,28747,95492 12,84216,18402	92019,15692 32,23709	1 35895,27306 21,83086	9,83067,38993,0280 8,23582,9950	9,96387,82499 15,21199	37:12
63	67726,12964,13894 12,84009,87843	92051,39401 32,24745	1 35917,10392 21,84202	9,83075,62576,0230 8,23294,5742	9,96403,03698 15,21154	37:48
64	67738,96974,01737 12,83803,53373	92083,64146 32,25781	1 35938,94594 21,85319	9,83083,85870,5972 8,23006,2627	9,96418,24852 15,21110	38:24
65	67751,80777,55110 12,83597,14992	92115,89927 32,26820	1 35960,79913 21,86435	9,83092,08876,8599 8,22718,0606	9,96433,45962 15,21067	39: 0
66	67764,64374,70102 12,83390,72701	92148,16747 32,27857	1 35982,66348 21,87553	9,83100,31594,9205 8,22429,9676	9,96448,67029 15,21023	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	73927,86050,79645 11,75416,77189	1 09783,03298 38,48117	1 48500,21660 28,44605	9,86880,81377,8104 6,90561,8537	10,04053,52249 15,22557	40:12
66	73916,10634,02456 11,75641,93322	1 09744,55181 38,46644	1 48471,77055 28,43063	9,86873,90815,9567 6,90803,9906	10,04038,29692 15,22507	39:36
65	73904,34992,09134 11,75867,05875	1 09706,08537 38,45171	1 48443,33992 28,41522	9,86867,00011,9661 6,91046,2045	10,04023,07185 15,22459	39: 0
64	73892,59125,03259 11,76092,14846	1 09667,63366 38,43699	1 48414,92470 28,39983	9,86860,08965,7616 6,91288,4954	10,04007,84726 15,22409	38:24
63	73880,83032,88413 11,76317,20233	1 09629,19667 38,42229	1 48386,52487 28,38445	9,86853,17677,2662 6,91530,8636	10,03992,62317 15,22360	37:48
62	73869,06715,68180 11,76542,22038	1 09590,77438 38,40759	1 48358,14042 28,36907	9,86846,26146,4026 6,91773,3089	10,03977,39957 15,22311	37:12
61	73857,30173,46142 11,76767,20258	1 09552,36679 38,39291	1 48329,77135 28,35371	9,86839,34373,0937 6,92015,8316	10,03962,17646 15,22263	36:36
60	73845,53406,25884 11,76992,14895	1 09513,97388 38,37823	1 48301,41764 28,33835	9,86832,42357,2621 6,92258,4313	10,03946,95383 15,22215	36: 0
59	73833,76414,10989 11,77217,05945	1 09475,59565 38,36357	1 48273,07929 28,32301	9,86825,50098,8308 6,92501,1087	10,03931,73168 15,22166	35:24
58	73821,99197,05044 11,77441,93410	1 09437,23208 38,34892	1 48244,75628 28,30767	9,86818,57597,7221 6,92743,8632	10,03916,51002 15,22118	34:48
57	73810,21755,11634 11,77666,77287	1 09398,88316 38,33427	1 48216,44861 28,29236	9,86811,64853,8589 6,92986,6954	10,03901,28884 15,22071	34:12
56	73798,44088,34347 11,77891,57579	1 09360,54889 38,31965	1 48188,15625 28,27704	9,86804,71867,1635 6,93229,6049	10,03886,06813 15,22023	33:36
55	73786,66196,76768 11,78116,34280	1 09322,22924 38,30502	1 48159,87921 28,26175	9,86797,78637,5586 6,93472,5921	10,03870,84790 15,21975	33: 0
54	73774,88080,42488 11,78341,07395	1 09283,92422 38,29042	1 48131,61746 28,24645	9,86790,85164,9665 6,93715,6569	10,03855,62815 15,21929	32:24
53	73763,09739,35093 11,78565,76919	1 09245,63380 38,27581	1 48103,37101 28,23117	9,86783,91449,3096 6,93958,7993	10,03840,40886 15,21881	31:48
52	73751,31173,58174 11,78790,42853	1 09207,35799 38,26123	1 48075,13984 28,21590	9,86776,97490,5103 6,94202,0195	10,03825,19005 15,21834	31:12
51	73739,52383,15321 11,79015,05197	1 09169,09676 38,24665	1 48046,92394 28,20065	9,86770,03288,4908 6,94445,3174	10,03809,97171 15,21788	30:36
50	73727,73368,10124 11,79239,63949	1 09130,85011 38,23209	1 48018,72329 28,18539	9,86763,08843,1734 6,94688,6931	10,03794,75383 15,21741	30: 0
49	73715,94128,46175 11,79464,19108	1 09092,61802 38,21752	1 47990,53790 28,17016	9,86756,14154,4803 6,94932,1468	10,03779,53642 15,21695	29:24
48	73704,14664,27067 11,79688,70675	1 09054,40050 38,20299	1 47962,36774 28,15493	9,86749,19222,3335 6,95175,6782	10,03764,31947 15,21649	28:48
47	73692,34975,56392 11,79913,18649	1 09016,19751 38,18844	1 47934,21281 28,13971	9,86742,24046,6553 6,95419,2878	10,03749,10298 15,21603	28:12
46	73680,55062,37743 11,80137,63028	1 08978,00907 38,17393	1 47906,07310 28,12450	9,86735,28627,3675 6,95662,9754	10,03733,88695 15,21558	27:36
45	73668,74924,74715 11,80362,03812	1 08939,83514 38,15940	1 47877,94860 28,10931	9,86728,32964,3921 6,95906,7409	10,03718,67137 15,21511	27: 0
44	73656,94562,70903 11,80586,41001	1 08901,67574 38,14491	1 47849,83929 28,09412	9,86721,37057,6512 6,96150,5848	10,03703,45626 15,21467	26:24
43	73645,13976,29902 11,80810,74593	1 08863,53083 38,13041	1 47821,74517 28,07895	9,86714,40907,0664 6,96394,5066	10,03688,24159 15,21421	25:48
42	73633,33165,55309 11,81035,04588	1 08825,40042 38,11594	1 47793,66622 28,06378	9,86707,44512,5598 6,96638,5069	10,03673,02738 15,21376	25:12
41	73621,52130,50721 11,81259,30987	1 08787,28448 38,10146	1 47765,60244 28,04862	9,86700,47874,0529 6,96882,5853	10,03657,81362 15,21332	24:36
40	73609,70871,19734 11,81483,53786	1 08749,18302 38,08699	1 47737,55382 28,03348	9,86693,50991,4676 6,97126,7421	10,03642,60030 15,21287	24: 0
39	73597,89387,65948 11,81707,72986	1 08711,09603 38,07255	1 47709,52034 28,01834	9,86686,53864,7255 6,97370,9774	10,03627,38743 15,21242	23:24
38	73586,07679,92962 11,81931,88587	1 08673,02348 38,05811	1 47681,50200 28,00323	9,86679,56493,7481 6,97615,2910	10,03612,17501 15,21199	22:48
37	73574,25748,04375 11,82156,00588	1 08634,96537 38,04368	1 47653,49877 27,98810	9,86672,58878,4571 6,97859,6832	10,03596,96302 15,21154	22:12
36	73562,43592,03787 11,82380,08987	1 08596,92169 38,02926	1 47625,51067 27,97301	9,86665,61018,7739 6,98104,1539	10,03581,75148 15,21110	21:36
35	73550,61211,94800 11,82604,13784	1 08558,89243 38,01486	1 47597,53766 27,95790	9,86658,62914,6200 6,98348,7032	10,03566,54038 15,21067	21: 0
34	73538,78607,81016 11,82828,14980	1 08520,87757 38,00045	1 47569,57976 27,94283	9,86651,64565,9168 6,98593,3312	10,03551,32971 15,21023	20:24

GRAD. 47.

42. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	67777,47765,42803	92180,44604	1 36004,53901	9,83108,54024,8881	9,96463,88052	40:12
	12,83184,26501	32,28896	21,88672	8,22141,9836	15,20980	
68	67790,30949,69304	92212,73500	1 36026,42573	9,83116,76166,8717	9,96479,09032	40:48
	12,82977,76392	32,29935	21,89790	8,21854,1087	15,20937	
69	67803,13927,45696	92245,03435	1 36048,32363	9,83124,98020,9804	9,96494,29969	41:24
	12,82771,22375	32,30976	21,90910	8,21566,3428	15,20894	
70	67815,96698,68071	92277,34411	1 36070,23273	9,83133,19587,3232	9,96509,50863	42: 0
	12,82564,64449	32,32016	21,92031	8,21278,6856	15,20852	
71	67828,79263,32520	92309,66427	1 36092,15304	9,83141,40866,0088	9,96524,71715	42:36
	12,82358,02618	32,33059	21,93151	8,20991,1372	15,20808	
72	67841,61621,35138	92341,99486	1 36114,08455	9,83149,61857,1460	9,96539,92523	43:12
	12,82151,36880	32,34100	21,94274	8,20703,6976	15,20767	
73	67854,43772,72018	92374,33586	1 36136,02729	9,83157,82560,8436	9,96555,13290	43:48
	12,81944,67236	32,35143	21,95396	8,20416,3666	15,20724	
74	67867,25717,39254	92406,68729	1 36157,98125	9,83166,02977,2102	9,96570,34014	44:24
	12,81737,93688	32,36188	21,96518	8,20129,1440	15,20682	
75	67880,07455,32942	92439,04917	1 36179,94643	9,83174,23106,3542	9,96585,54696	45: 0
	12,81531,16234	32,37231	21,97643	8,19842,0300	15,20641	
76	67892,88986,49176	92471,42148	1 36201,92286	9,83182,42948,3842	9,96600,75337	45:36
	12,81324,34878	32,38277	21,98767	8,19555,0244	15,20599	
77	67905,70310,84054	92503,80425	1 36223,91053	9,83190,62503,4086	9,96615,95936	46:12
	12,81117,49617	32,39322	21,99892	8,19268,1270	15,20558	
78	67918,51428,33671	92536,19747	1 36245,90945	9,83198,81771,5356	9,96631,16494	46:48
	12,80910,60455	32,40369	22,01018	8,18981,3378	15,20516	
79	67931,32338,94126	92568,60116	1 36267,91963	9,83207,00752,8734	9,96646,37010	47:24
	12,80703,67391	32,41416	22,02145	8,18694,6568	15,20475	
80	67944,13042,61517	92601,01532	1 36289,94108	9,83215,19447,5302	9,96661,57485	48: 0
	12,80496,70424	32,42464	22,03271	8,18408,0840	15,20435	
81	67956,93539,31941	92633,43996	1 36311,97379	9,83223,37855,6142	9,96676,77920	48:36
	12,80289,69559	32,43513	22,04400	8,18121,6189	15,20394	
82	67969,73829,01500	92665,87509	1 36334,01779	9,83231,55977,2331	9,96691,98314	49:12
	12,80082,64792	32,44562	22,05528	8,17835,2620	15,20353	
83	67982,53911,66292	92698,32071	1 36356,07307	9,83239,73812,4951	9,96707,18667	49:48
	12,79875,56127	32,45612	22,06657	8,17549,0127	15,20313	
84	67995,33787,22419	92730,77683	1 36378,13964	9,83247,91361,5078	9,96722,38980	50:24
	12,79668,43563	32,46663	22,07787	8,17262,8713	15,20273	
85	68008,13455,65982	92763,24346	1 36400,21751	9,83256,08624,3791	9,96737,59253	51: 0
	12,79461,27100	32,47714	22,08918	8,16976,8374	15,20233	
86	68020,92916,93082	92795,72060	1 36422,30669	9,83264,25601,2165	9,96752,79486	51:36
	12,79254,06740	32,48767	22,10049	8,16690,9113	15,20194	
87	68033,72170,99822	92828,20827	1 36444,40718	9,83272,42292,1278	9,96767,99680	52:12
	12,79046,82483	32,49819	22,11181	8,16405,0927	15,20154	
88	68046,51217,82305	92860,70646	1 36466,51899	9,83280,58697,2205	9,96783,19834	52:48
	12,78839,54331	32,50873	22,12313	8,16119,3813	15,20114	
89	68059,30057,36636	92893,21519	1 36488,64212	9,83288,74816,6018	9,96798,39948	53:24
	12,78632,22282	32,51927	22,13447	8,15833,7776	15,20075	
90	68072,08689,58918	92925,73446	1 36510,77659	9,83296,90650,3794	9,96813,60023	54: 0
	12,78424,86338	32,52983	22,14581	8,15548,2809	15,20037	
91	68084,87114,45256	92958,26429	1 36532,92240	9,83305,06198,6603	9,96828,80060	54:36
	12,78217,46501	32,54038	22,15715	8,15262,8915	15,19998	
92	68097,65331,91757	92990,80467	1 36555,07955	9,83313,21461,5518	9,96844,00058	55:12
	12,78010,02770	32,55094	22,16851	8,14977,6093	15,19959	
93	68110,43341,94527	93023,35561	1 36577,24806	9,83321,36439,1611	9,96859,20017	55:48
	12,77802,55145	32,56151	22,17987	8,14692,4341	15,19920	
94	68123,21144,49672	93055,91712	1 36599,42793	9,83329,51131,5952	9,96874,39937	56:24
	12,77595,03628	32,57210	22,19124	8,14407,3658	15,19883	
95	68135,98739,53300	93088,48922	1 36621,61917	9,83337,65538,9610	9,96889,59820	57: 0
	12,77387,48220	32,58268	22,20261	8,14122,4045	15,19844	
96	68148,76127,01520	93121,07190	1 36643,82178	9,83345,79661,3655	9,96904,79664	57:36
	12,77179,88920	32,59327	22,21399	8,13837,5500	15,19807	
97	68161,53306,90440	93153,66517	1 36666,03577	9,83353,93498,9155	9,96919,99471	58:12
	12,76972,25729	32,60387	22,22539	8,13552,8021	15,19769	
98	68174,30279,16169	93186,26904	1 36688,26116	9,83362,07051,7176	9,96935,19240	58:48
	12,76764,58650	32,61448	22,23677	8,13268,1611	15,19731	
99	68187,07043,74819	93218,88352	1 36710,49793	9,83370,20319,8787	9,96950,38971	59:24
	12,76556,87680	32,62509	22,24818	8,12983,6265	15,19694	
100	68199,83600,62499	93251,50861	1 36732,74611	9,83378,33303,5052	9,96965,58665	60: 0
	12,76349,12821	32,63572	22,25959	8,12699,1985	15,19657	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	73526,95779,66036 11,83052,12572	1 08482,87712 37,98607	1 47541,63693 27,92776	9,86644,65972,5856 6,98838,0379	10,03536,11948 15,20980	19:48
32	73515,12727,53464 11,83276,06560	1 08444,89105 37,97169	1 47513,70917 27,91269	9,86637,67134,5477 6,99082,8234	10,03520,90968 15,20937	19:12
31	73503,29451,46904 11,83499,96944	1 08406,91936 37,95733	1 47485,79648 27,89764	9,86630,68051,7243 6,99327,6877	10,03505,70031 15,20894	18:36
30	73491,45951,49960 11,83723,83723	1 08368,96203 37,94297	1 47457,89884 27,88259	9,86623,68724,0366 6,99572,6308	10,03490,49137 15,20852	18: 0
29	73479,62227,66237 11,83947,66896	1 08331,01906 37,92862	1 47430,01625 27,86757	9,86616,69151,4058 6,99817,6529	10,03475,28285 15,20808	17:24
28	73467,78279,99341 11,84171,46462	1 08293,09044 37,91429	1 47402,14868 27,85254	9,86609,69333,7529 7,00062,7540	10,03460,07477 15,20767	16:48
27	73455,94108,52879 11,84395,22421	1 08255,17615 37,89997	1 47374,29614 27,83753	9,86602,69270,9989 7,00307,9340	10,03444,86710 15,20724	16:12
26	73444,09713,30458 11,84618,94772	1 08217,27618 37,88565	1 47346,45861 27,82253	9,86595,68963,0649 7,00553,1932	10,03429,65986 15,20682	15:36
25	73432,25094,35686 11,84842,63516	1 08179,39053 37,87135	1 47318,63608 27,80754	9,86588,68409,8717 7,00798,5316	10,03414,45304 15,20641	15: 0
24	73420,40251,72170 11,85066,28649	1 08141,51918 37,85705	1 47290,82854 27,79256	9,86581,67611,3401 7,01043,9490	10,03399,24663 15,20599	14:24
23	73408,55185,43521 11,85289,90172	1 08103,66213 37,84277	1 47263,03598 27,77759	9,86574,66567,3911 7,01289,4458	10,03384,04064 15,20558	13:48
22	73396,69895,53349 11,85513,48085	1 08065,81936 37,82850	1 47235,25839 27,76263	9,86567,65277,9453 7,01535,0218	10,03368,83506 15,20516	13:12
21	73384,84382,05264 11,85737,02388	1 08027,99086 37,81424	1 47207,49576 27,74767	9,86560,63742,9235 7,01780,6772	10,03353,62990 15,20475	12:36
20	73372,98645,02876 11,85960,53077	1 07990,17662 37,79999	1 47179,74809 27,73274	9,86553,61962,2463 7,02026,4121	10,03338,42515 15,20435	12: 0
19	73361,12684,49799 11,86184,00154	1 07952,37663 37,78574	1 47152,01535 27,71781	9,86546,59935,8342 7,02272,2262	10,03323,22080 15,20394	11:24
18	73349,26500,49645 11,86407,43617	1 07914,59089 37,77151	1 47124,29754 27,70289	9,86539,57663,6080 7,02518,1201	10,03308,01686 15,20353	10:48
17	73337,40093,06028 11,86630,83468	1 07876,81938 37,75730	1 47096,59465 27,68797	9,86532,55145,4879 7,02764,0934	10,03292,81333 15,20313	10:12
16	73325,53462,22560 11,86854,19703	1 07839,06208 37,74308	1 47068,90668 27,67308	9,86525,52381,3945 7,03010,1463	10,03277,61020 15,20273	9:36
15	73313,66608,02857 11,87077,52322	1 07801,31900 37,72888	1 47041,23360 27,65819	9,86518,49371,2482 7,03256,2790	10,03262,40747 15,20233	9: 0
14	73301,79530,50535 11,87300,81326	1 07763,59012 37,71469	1 47013,57541 27,64331	9,86511,46114,9692 7,03502,4913	10,03247,20514 15,20194	8:24
13	73289,92229,69209 11,87524,06713	1 07725,87543 37,70052	1 46985,93210 27,62844	9,86504,42612,4779 7,03748,7834	10,03232,00320 15,20154	7:48
12	73278,04705,62496 11,87747,28483	1 07688,17491 37,68634	1 46958,30366 27,61357	9,86497,38863,6945 7,03995,1554	10,03216,80166 15,20114	7:12
11	73266,16958,34013 11,87970,46634	1 07650,48857 37,67219	1 46930,69009 27,59873	9,86490,34868,5391 7,04241,6072	10,03201,60052 15,20075	6:36
10	73254,28987,87379 11,88193,61167	1 07612,81638 37,65804	1 46903,09136 27,58390	9,86483,30626,9319 7,04488,1391	10,03186,39977 15,20037	6: 0
9	73242,40794,26212 11,88416,72080	1 07575,15834 37,64389	1 46875,50746 27,56906	9,86476,26138,7928 7,04734,7508	10,03171,19940 15,19998	5:24
8	73230,52377,54132 11,88639,79374	1 07537,51445 37,62978	1 46847,93840 27,55424	9,86469,21404,0420 7,04981,4426	10,03155,99942 15,19959	4:48
7	73218,63737,74758 11,88862,83045	1 07499,88467 37,61565	1 46820,38416 27,53943	9,86462,16422,5994 7,05228,2146	10,03140,79983 15,19920	4:12
6	73206,74874,91713 11,89085,83097	1 07462,26902 37,60154	1 46792,84473 27,52464	9,86455,11194,3848 7,05475,0667	10,03125,60063 15,19883	3:36
5	73194,85789,08616 11,89308,79525	1 07424,66748 37,58745	1 46765,32009 27,50984	9,86448,05719,3181 7,05721,9990	10,03110,40180 15,19844	3: 0
4	73182,96480,29091 11,89531,72331	1 07387,08003 37,57336	1 46737,81025 27,49507	9,86440,99997,3191 7,05969,0115	10,03095,20336 15,19807	2:24
3	73171,06948,56760 11,89754,61513	1 07349,50667 37,55929	1 46710,31518 27,48029	9,86433,94028,3076 7,06216,1045	10,03080,00529 15,19769	1:48
2	73159,17193,95247 11,89977,47072	1 07311,94738 37,54522	1 46682,83489 27,46554	9,86426,87812,2031 7,06463,2777	10,03064,80760 15,19731	1:12
1	73147,27216,48175 11,90200,29005	1 07274,40216 37,53116	1 46655,36935 27,45079	9,86419,81348,9254 7,06710,5314	10,03049,61029 15,19694	0:36
0	73135,37016,19170 11,90423,07312	1 07236,87100 37,51711	1 46627,91856 27,43604	9,86412,74638,3940 7,06957,8656	10,03034,41335 15,19657	0: 0

GRAD. 47.

43. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	68199,83600,62499	93251,50861	1 36732,74611	9,83378,33303,5052	9,96965,58665	0: 0
	12,76349,12821	32,63572	22,25959	8,12699,1985	15,19657	
1	68212,59949,75320	93284,14433	1 36755,00570	9,83386,46002,7037	9,96980,78322	0:36
	12,76141,34076	32,64634	22,27100	8,12414,8769	15,19620	
2	68225,36091,09396	93316,79067	1 36777,27670	9,83394,58417,5806	9,96995,97942	1:12
	12,75933,51443	32,65698	22,28243	8,12130,6616	15,19584	
3	68238,12024,60839	93349,44765	1 36799,55913	9,83402,70548,2422	9,97011,17526	1:48
	12,75725,64923	32,66763	22,29385	8,11846,5527	15,19547	
4	68250,87750,25762	93382,11528	1 36821,85298	9,83410,82394,7949	9,97026,37073	2:24
	12,75517,74516	32,67827	22,30529	8,11562,5499	15,19510	
5	68263,63268,00278	93414,79355	1 36844,15827	9,83418,93957,3448	9,97041,56583	3: 0
	12,75309,80225	32,68893	22,31674	8,11278,6532	15,19475	
6	68276,38577,80503	93447,48248	1 36866,47501	9,83427,05235,9980	9,97056,76058	3:36
	12,75101,82048	32,69959	22,32819	8,10994,8627	15,19438	
7	68289,13679,62551	93480,18207	1 36888,80320	9,83435,16230,8607	9,97071,95496	4:12
	12,74893,79988	32,71027	22,33964	8,10711,1780	15,19403	
8	68301,88573,42539	93512,89234	1 36911,14284	9,83443,26942,0387	9,97087,14899	4:48
	12,74685,74044	32,72095	22,35111	8,10427,5992	15,19367	
9	68314,63259,16583	93545,61329	1 36933,49395	9,83451,37369,6379	9,97102,34266	5:24
	12,74477,64216	32,73163	22,36258	8,10144,1264	15,19331	
10	68327,37736,80799	93578,34492	1 36955,85653	9,83459,47513,7643	9,97117,53597	6: 0
	12,74269,50507	32,74232	22,37406	8,09860,7591	15,19297	
11	68340,12006,31306	93611,08724	1 36978,23059	9,83467,57374,5234	9,97132,72894	6:36
	12,74061,32917	32,75303	22,38554	8,09577,4977	15,19261	
12	68352,86067,64223	93643,84027	1 37000,61613	9,83475,66952,0211	9,97147,92155	7:12
	12,73853,11444	32,76374	22,39704	8,09294,3417	15,19227	
13	68365,59920,75667	93676,60401	1 37023,01317	9,83483,76246,3628	9,97163,11382	7:48
	12,73644,86092	32,77445	22,40854	8,09011,2913	15,19192	
14	68378,33565,61759	93709,37846	1 37045,42171	9,83491,85257,6541	9,97178,30574	8:24
	12,73436,56859	32,78517	22,42004	8,08728,3463	15,19157	
15	68391,07002,18618	93742,16363	1 37067,84175	9,83499,93986,0004	9,97193,49731	9: 0
	12,73228,23749	32,79590	22,43155	8,08445,5067	15,19123	
16	68403,80230,42367	93774,95953	1 37090,27330	9,83508,02431,5071	9,97208,68854	9:36
	12,73019,86759	32,80664	22,44308	8,08162,7723	15,19089	
17	68416,53250,29126	93807,76617	1 37112,71638	9,83516,10594,2794	9,97223,87943	10:12
	12,72811,45891	32,81738	22,45461	8,07880,1432	15,19055	
18	68429,26061,75017	93840,58355	1 37135,17099	9,83524,18474,4226	9,97239,06998	10:48
	12,72603,01147	32,82814	22,46614	8,07597,6192	15,19021	
19	68441,98664,76164	93873,41169	1 37157,63713	9,83532,26072,0418	9,97254,26019	11:24
	12,72394,52525	32,83889	22,47768	8,07315,2002	15,18988	
20	68454,71059,28689	93906,25058	1 37180,11481	9,83540,33387,2420	9,97269,45007	12: 0
	12,72186,00028	32,84966	22,48923	8,07032,8862	15,18955	
21	68467,43245,28717	93939,10024	1 37202,60404	9,83548,40420,1282	9,97284,63962	12:36
	12,71977,43655	32,86044	22,50078	8,06750,6772	15,18921	
22	68480,15222,72372	93971,96068	1 37225,10482	9,83556,47170,8054	9,97299,82883	13:12
	12,71768,83408	32,87121	22,51235	8,06468,5729	15,18888	
23	68492,86991,55780	94004,83189	1 37247,61717	9,83564,53639,3783	9,97315,01771	13:48
	12,71560,19287	32,88200	22,52392	8,06186,5735	15,18855	
24	68505,58551,75067	94037,71389	1 37270,14109	9,83572,59825,9518	9,97330,20626	14:24
	12,71351,51292	32,89280	22,53549	8,05904,6786	15,18823	
25	68518,29903,26359	94070,60669	1 37292,67658	9,83580,65730,6304	9,97345,39449	15: 0
	12,71142,79425	32,90360	22,54708	8,05622,8884	15,18791	
26	68531,01046,05784	94103,51029	1 37315,22366	9,83588,71353,5188	9,97360,58240	15:36
	12,70934,03685	32,91441	22,55867	8,05341,2027	15,18758	
27	68543,71980,09469	94136,42470	1 37337,78233	9,83596,76694,7215	9,97375,76998	16:12
	12,70725,24075	32,92523	22,57027	8,05059,6215	15,18726	
28	68556,42705,33544	94169,34993	1 37360,35260	9,83604,81754,3430	9,97390,95724	16:48
	12,70516,40592	32,93605	22,58187	8,04778,1446	15,18694	
29	68569,13221,74136	94202,28598	1 37382,93447	9,83612,86532,4876	9,97406,14418	17:24
	12,70307,53240	32,94689	22,59349	8,04496,7720	15,18663	
30	68581,83529,27376	94235,23287	1 37405,52796	9,83620,91029,2596	9,97421,33081	18: 0
	12,70098,62019	32,95772	22,60510	8,04215,5037	15,18631	
31	68594,53627,89395	94268,19059	1 37428,13306	9,83628,95244,7633	9,97436,51712	18:36
	12,69889,66928	32,96857	22,61674	8,03934,3395	15,18600	
32	68607,23517,56323	94301,15916	1 37450,74980	9,83636,99179,1028	9,97451,70312	19:12
	12,69680,67969	32,97943	22,62836	8,03653,2794	15,18568	
33	68619,93198,24292	94334,13859	1 37473,37816	9,83645,02832,3822	9,97466,88880	19:48
	12,69471,65143	32,99029	22,64001	8,03372,3233	15,18538	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	73135,37016,19170 11,90423,07312	1 07236,87100 37,51711	1 46627,91856 27,43604	9,86412,74638,3940 7,06957,8656	10,03034,41335 15,19657	60: 0
99	73123,46593,11858 11,90645,81994	1 07199,35389 37,50308	1 46600,48252 27,42132	9,86405,67680,5284 7,07205,2802	10,03019,21678 15,19620	59:24
98	73111,55947,29864 11,90868,53048	1 07161,85081 37,48905	1 46573,06120 27,40660	9,86398,60475,2482 7,07452,7756	10,03004,02058 15,19584	58:48
97	73099,65078,76816 11,91091,20476	1 07124,36176 37,47504	1 46545,65460 27,39189	9,86391,53022,4726 7,07700,3516	10,02988,82474 15,19547	58:12
96	73087,73987,56340 11,91313,84274	1 07086,88672 37,46103	1 46518,26271 27,37719	9,86384,45322,1210 7,07948,0082	10,02973,62927 15,19510	57:36
95	73075,82673,72066 11,91536,44444	1 07049,42569 37,44704	1 46490,88552 27,36250	9,86377,37374,1128 7,08195,7455	10,02958,43417 15,19475	57: 0
94	73063,91137,27622 11,91759,00984	1 07011,97865 37,43305	1 46463,52302 27,34782	9,86370,29178,3673 7,08443,5638	10,02943,23942 15,19438	56:24
93	73051,99378,26638 11,91981,53893	1 06974,54560 37,41907	1 46436,17520 27,33315	9,86363,20734,8035 7,08691,4629	10,02928,04504 15,19403	55:48
92	73040,07396,72745 11,92204,03173	1 06937,12653 37,40511	1 46408,84205 27,31849	9,86356,12043,3406 7,08939,4429	10,02912,85101 15,19367	55:12
91	73028,15192,69572 11,92426,48820	1 06899,72142 37,39116	1 46381,52356 27,30384	9,86349,03103,8977 7,09187,5038	10,02897,65734 15,19331	54:36
90	73016,22766,20752 11,92648,90834	1 06862,33026 37,37721	1 46354,21972 27,28920	9,86341,93916,3939 7,09435,6459	10,02882,46403 15,19297	54: 0
89	73004,30117,29918 11,92871,29217	1 06824,95305 37,36327	1 46326,93052 27,27457	9,86334,84480,7480 7,09683,8689	10,02867,27106 15,19261	53:24
88	72992,37246,00701 11,93093,63964	1 06787,58978 37,34935	1 46299,65595 27,25995	9,86327,74796,8791 7,09932,1731	10,02852,07845 15,19227	52:48
87	72980,44152,36737 11,93315,95078	1 06750,24043 37,33544	1 46272,39600 27,24534	9,86320,64864,7060 7,10180,5585	10,02836,88618 15,19192	52:12
86	72968,50836,41659 11,93538,22557	1 06712,90499 37,32153	1 46245,15066 27,23074	9,86313,54684,1475 7,10429,0252	10,02821,69426 15,19157	51:36
85	72956,57298,19102 11,93760,46400	1 06675,58346 37,30763	1 46217,91992 27,21614	9,86306,44255,1223 7,10677,5732	10,02806,50269 15,19123	51: 0
84	72944,63537,72702 11,93982,66606	1 06638,27583 37,29375	1 46190,70378 27,20157	9,86299,33577,5491 7,10926,2025	10,02791,31146 15,19089	50:24
83	72932,69555,06096 11,94204,83176	1 06600,98208 37,27988	1 46163,50221 27,18699	9,86292,22651,3466 7,11174,9132	10,02776,12057 15,19055	49:48
82	72920,75350,22920 11,94426,96108	1 06563,70220 37,26601	1 46136,31522 27,17243	9,86285,11476,4334 7,11423,7054	10,02760,93002 15,19021	49:12
81	72908,80923,26812 11,94649,05400	1 06526,43619 37,25216	1 46109,14279 27,15788	9,86278,00052,7280 7,11672,5791	10,02745,73981 15,18988	48:36
80	72896,86274,21412 11,94871,11056	1 06489,18403 37,23831	1 46081,98491 27,14333	9,86270,88380,1489 7,11921,5344	10,02730,54993 15,18955	48: 0
79	72884,91403,10356 11,95093,13069	1 06451,94572 37,22448	1 46054,84158 27,12881	9,86263,76458,6145 7,12170,5714	10,02715,36038 15,18921	47:24
78	72872,96309,97287 11,95315,11443	1 06414,72124 37,21065	1 46027,71277 27,11428	9,86256,64288,0431 7,12419,6900	10,02700,17117 15,18888	46:48
77	72861,00994,85844 11,95537,06177	1 06377,51059 37,19684	1 46000,59849 27,09977	9,86249,51868,3531 7,12668,8903	10,02684,98229 15,18855	46:12
76	72849,05457,79667 11,95758,97267	1 06340,31375 37,18303	1 45973,49872 27,08526	9,86242,39199,4628 7,12918,1725	10,02669,79374 15,18823	45:36
75	72837,09698,82400 11,95980,84715	1 06303,13072 37,16924	1 45946,41346 27,07077	9,86235,26281,2903 7,13167,5366	10,02654,60551 15,18791	45: 0
74	72825,13717,97685 11,96202,68521	1 06265,96148 37,15545	1 45919,34269 27,05629	9,86228,13113,7537 7,13416,9825	10,02639,41760 15,18758	44:24
73	72813,17515,29164 11,96424,48683	1 06228,80603 37,14168	1 45892,28640 27,04182	9,86220,99696,7712 7,13666,5104	10,02624,23002 15,18726	43:48
72	72801,21090,80481 11,96646,25199	1 06191,66435 37,12791	1 45865,24458 27,02734	9,86213,86030,2608 7,13916,1203	10,02609,04276 15,18694	43:12
71	72789,24444,55282 11,96867,98072	1 06154,53644 37,11416	1 45838,21724 27,01290	9,86206,72114,1405 7,14165,8123	10,02593,85582 15,18663	42:36
70	72777,27576,57210 11,97089,67297	1 06117,42228 37,10041	1 45811,20434 26,99845	9,86199,57948,3282 7,14415,5864	10,02578,66919 15,18631	42: 0
69	72765,30486,89913 11,97311,32876	1 06080,32187 37,08668	1 45784,20589 26,98401	9,86192,43532,7418 7,14665,4428	10,02563,48288 15,18600	41:24
68	72753,33175,57037 11,97532,94809	1 06043,23519 37,07295	1 45757,22188 26,96959	9,86185,28867,2990 7,14915,3814	10,02548,29688 15,18568	40:48
67	72741,35642,62228 11,97754,53093	1 06006,16224 37,05924	1 45730,25229 26,95517	9,86178,13951,9176 7,15165,4022	10,02533,11120 15,18538	40:12

GRAD. 46.

43. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	68619,93198,24292	94334,13859	1 37473,37816	9,83645,02832,3822	9,97466,88880	19:48
	12,69471,65143	32,99029	22,64001	8,03372,3233	15,18538	
34	68632,62669,89435	94367,12888	1 37496,01817	9,83653,06204,7055	9,97482,07418	20:24
	12,69262,58449	33,00115	22,65165	8,03091,4711	15,18507	
35	68645,31932,47884	94400,13003	1 37518,66982	9,83661,09296,1766	9,97497,25925	21: 0
	12,69053,47889	33,01203	22,66331	8,02810,7227	15,18477	
36	68658,00985,95773	94433,14206	1 37541,33313	9,83669,12106,8993	9,97512,44402	21:36
	12,68844,33463	33,02292	22,67497	8,02530,0782	15,18446	
37	68670,69830,29236	94466,16498	1 37564,00810	9,83677,14636,9775	9,97527,62848	22:12
	12,68635,15172	33,03381	22,68665	8,02249,5373	15,18415	
38	68683,38465,44408	94499,19879	1 37586,69475	9,83685,16886,5148	9,97542,81263	22:48
	12,68425,93017	33,04470	22,69831	8,01969,1001	15,18386	
39	68696,06891,37425	94532,24349	1 37609,39306	9,83693,18855,6149	9,97557,99649	23:24
	12,68216,66998	33,05561	22,71001	8,01688,7664	15,18356	
40	68708,75108,04423	94565,29910	1 37632,10307	9,83701,20544,3813	9,97573,18005	24: 0
	12,68007,37115	33,06653	22,72169	8,01408,5362	15,18327	
41	68721,43115,41538	94598,36563	1 37654,82476	9,83709,21952,9175	9,97588,36332	24:36
	12,67798,03371	33,07744	22,73339	8,01128,4094	15,18297	
42	68734,10913,44909	94631,44307	1 37677,55815	9,83717,23081,3269	9,97603,54629	25:12
	12,67588,65763	33,08838	22,74509	8,00848,3859	15,18267	
43	68746,78502,10672	94664,53145	1 37700,30324	9,83725,23929,7128	9,97618,72896	25:48
	12,67379,24295	33,09930	22,75681	8,00568,4657	15,18239	
44	68759,45881,34967	94697,63075	1 37723,06005	9,83733,24498,1785	9,97633,91135	26:24
	12,67169,78967	33,11026	22,76853	8,00288,6487	15,18210	
45	68772,13051,13934	94730,74101	1 37745,82858	9,83741,24786,8272	9,97649,09345	27: 0
	12,66960,29777	33,12120	22,78026	8,00008,9347	15,18181	
46	68784,80011,43711	94763,86221	1 37768,60884	9,83749,24795,7619	9,97664,27526	27:36
	12,66750,76729	33,13216	22,79198	7,99729,3238	15,18152	
47	68797,46762,20440	94796,99437	1 37791,40082	9,83757,24525,0857	9,97679,45678	28:12
	12,66541,19823	33,14312	22,80374	7,99449,8159	15,18124	
48	68810,13303,40263	94830,13749	1 37814,20456	9,83765,23974,9016	9,97694,63802	28:48
	12,66331,59057	33,15410	22,81547	7,99170,4108	15,18096	
49	68822,79634,99320	94863,29159	1 37837,02003	9,83773,23145,3124	9,97709,81898	29:24
	12,66121,94434	33,16508	22,82724	7,98891,1086	15,18069	
50	68835,45756,93754	94896,45667	1 37859,84727	9,83781,22036,4210	9,97724,99967	30: 0
	12,65912,25955	33,17607	22,83900	7,98611,9091	15,18040	
51	68848,11669,19709	94929,63274	1 37882,68627	9,83789,20648,3301	9,97740,18007	30:36
	12,65702,53619	33,18706	22,85076	7,98332,8122	15,18013	
52	68860,77371,73328	94962,81980	1 37905,53703	9,83797,18981,1423	9,97755,36020	31:12
	12,65492,77429	33,19806	22,86255	7,98053,8180	15,17985	
53	68873,42864,50757	94996,01786	1 37928,39958	9,83805,17034,9603	9,97770,54005	31:48
	12,65282,97382	33,20908	22,87433	7,97774,9262	15,17958	
54	68886,08147,48139	95029,22694	1 37951,27391	9,83813,14809,8865	9,97785,71963	32:24
	12,65073,13482	33,22009	22,88612	7,97496,1370	15,17931	
55	68898,73220,61621	95062,44703	1 37974,16003	9,83821,12306,0235	9,97800,89894	33: 0
	12,64863,25727	33,23112	22,89792	7,97217,4500	15,17904	
56	68911,38083,87348	95095,67815	1 37997,05795	9,83829,09523,4735	9,97816,07798	33:36
	12,64653,34121	33,24215	22,90973	7,96938,8654	15,17878	
57	68924,02737,21469	95128,92030	1 38019,96768	9,83837,06462,3389	9,97831,25676	34:12
	12,64443,38662	33,25319	22,92154	7,96660,3830	15,17851	
58	68936,67180,60131	95162,17349	1 38042,88922	9,83845,03122,7219	9,97846,43527	34:48
	12,64233,39350	33,26424	22,93336	7,96382,0027	15,17825	
59	68949,31413,99481	95195,43773	1 38065,82258	9,83852,99504,7246	9,97861,61352	35:24
	12,64023,36189	33,27529	22,94519	7,96103,7245	15,17799	
60	68961,95437,35670	95228,71302	1 38088,76777	9,83860,95608,4491	9,97876,79151	36: 0
	12,63813,29176	33,28636	22,95703	7,95825,5484	15,17772	
61	68974,59250,64846	95261,99938	1 38111,72480	9,83868,91433,9975	9,97891,96923	36:36
	12,63603,18313	33,29743	22,96887	7,95547,4741	15,17748	
62	68987,22853,83159	95295,29681	1 38134,69367	9,83876,86981,4716	9,97907,14671	37:12
	12,63393,03602	33,30851	22,98071	7,95269,5017	15,17721	
63	68999,86246,86761	95328,60532	1 38157,67438	9,83884,82250,9733	9,97922,32392	37:48
	12,63182,85042	33,31959	22,99258	7,94991,6312	15,17696	
64	69012,49429,71803	95361,92491	1 38180,66696	9,83892,77242,6045	9,97937,50088	38:24
	12,62972,62634	33,33068	23,00444	7,94713,8622	15,17671	
65	69025,12402,34437	95395,25559	1 38203,67140	9,83900,71956,4667	9,97952,67759	39: 0
	12,62762,36379	33,34179	23,01632	7,94436,1950	15,17646	
66	69037,75164,70816	95428,59738	1 38226,68772	9,83908,66392,6617	9,97967,85405	39:36
	12,62552,06277	33,35289	23,02819	7,94158,6293	15,17622	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	72741,35642,62228 11,97754,53093	1 06006,16224 37,05924	1 45730,25229 26,95517	9,86178,13951,9176 7,15165,4022	10,02533,11120 15,18538	40:12
66	72729,37888,09135 11,97976,07728	1 05969,10300 37,04553	1 45703,29712 26,94077	9,86170,98786,5154 7,15415,5054	10,02517,92582 15,18507	39:36
65	72717,39912,01407 11,98197,58715	1 05932,05747 37,03183	1 45676,35635 26,92636	9,86163,83371,0100 7,15665,6911	10,02502,74075 15,18477	39: 0
64	72705,41714,42692 11,98419,06052	1 05895,02564 37,01815	1 45649,42999 26,91199	9,86156,67705,3189 7,15915,9592	10,02487,55598 15,18446	38:24
63	72693,43295,36640 11,98640,49737	1 05858,00749 37,00447	1 45622,51800 26,89760	9,86149,51789,3597 7,16166,3098	10,02472,37152 15,18415	37:48
62	72681,44654,86903 11,98861,89772	1 05821,00302 36,99081	1 45595,62040 26,88323	9,86142,35623,0499 7,16416,7431	10,02457,18737 15,18386	37:12
61	72669,45792,97131 11,99083,26155	1 05784,01221 36,97715	1 45568,73717 26,86888	9,86135,19206,3068 7,16667,2589	10,02442,00351 15,18356	36:36
60	72657,46709,70976 11,99304,58885	1 05747,03506 36,96350	1 45541,86829 26,85453	9,86128,02539,0479 7,16917,8574	10,02426,81995 15,18327	36: 0
59	72645,47405,12091 11,99525,87962	1 05710,07156 36,94986	1 45515,01376 26,84019	9,86120,85621,1905 7,17168,5387	10,02411,63668 15,18297	35:24
58	72633,47879,24129 11,99747,13384	1 05673,12170 36,93624	1 45488,17357 26,82586	9,86113,68452,6518 7,17419,3029	10,02396,45371 15,18267	34:48
57	72621,48132,10745 11,99968,35153	1 05636,18546 36,92262	1 45461,34771 26,81154	9,86106,51033,3489 7,17670,1498	10,02381,27104 15,18239	34:12
56	72609,48163,75592 12,00189,53266	1 05599,26284 36,90902	1 45434,53617 26,79723	9,86099,33363,1991 7,17921,0797	10,02366,08865 15,18210	33:36
55	72597,47974,22326 12,00410,67722	1 05562,35382 36,89541	1 45407,73894 26,78292	9,86092,15442,1194 7,18172,0925	10,02350,90655 15,18181	33: 0
54	72585,47563,54604 12,00631,78523	1 05525,45841 36,88183	1 45380,95602 26,76864	9,86084,97270,0269 7,18423,1884	10,02335,72474 15,18152	32:24
53	72573,46931,76081 12,00852,85666	1 05488,57658 36,86825	1 45354,18738 26,75435	9,86077,78846,8385 7,18674,3675	10,02320,54322 15,18124	31:48
52	72561,46078,90415 12,01073,89151	1 05451,70833 36,85468	1 45327,43303 26,74009	9,86070,60172,4710 7,18925,6295	10,02305,36198 15,18096	31:12
51	72549,45005,01264 12,01294,88976	1 05414,85365 36,84112	1 45300,69294 26,72581	9,86063,41246,8415 7,19176,9748	10,02290,18102 15,18069	30:36
50	72537,43710,12288 12,01515,85144	1 05378,01253 36,82757	1 45273,96713 26,71157	9,86056,22069,8667 7,19428,4034	10,02275,00033 15,18040	30: 0
49	72525,42194,27144 12,01736,77651	1 05341,18496 36,81404	1 45247,25556 26,69732	9,86049,02641,4633 7,19679,9154	10,02259,81993 15,18013	29:24
48	72513,40457,49493 12,01957,66496	1 05304,37092 36,80050	1 45220,55824 26,68309	9,86041,82961,5479 7,19931,5106	10,02244,63980 15,17985	28:48
47	72501,38499,82997 12,02178,51682	1 05267,57042 36,78699	1 45193,87515 26,66886	9,86034,63030,0373 7,20183,1892	10,02229,45995 15,17958	28:12
46	72489,36321,31315 12,02399,33204	1 05230,78343 36,77347	1 45167,20629 26,65465	9,86027,42846,8481 7,20434,9515	10,02214,28037 15,17931	27:36
45	72477,33921,98111 12,02620,11064	1 05194,00996 36,75997	1 45140,55164 26,64044	9,86020,22411,8966 7,20686,7972	10,02199,10106 15,17904	27: 0
44	72465,31301,87047 12,02840,85261	1 05157,24999 36,74648	1 45113,91120 26,62624	9,86013,01725,0994 7,20938,7264	10,02183,92202 15,17878	26:24
43	72453,28461,01786 12,03061,55794	1 05120,50351 36,73300	1 45087,28496 26,61206	9,86005,80786,3730 7,21190,7395	10,02168,74324 15,17851	25:48
42	72441,25399,45992 12,03282,22661	1 05083,77051 36,71953	1 45060,67290 26,59787	9,85998,59595,6335 7,21442,8361	10,02153,56473 15,17825	25:12
41	72429,22117,23331 12,03502,85863	1 05047,05098 36,70607	1 45034,07503 26,58371	9,85991,38152,7974 7,21695,0166	10,02138,38648 15,17799	24:36
40	72417,18614,37468 12,03723,45400	1 05010,34491 36,69262	1 45007,49132 26,56955	9,85984,16457,7808 7,21947,2809	10,02123,20849 15,17772	24: 0
39	72405,14890,92068 12,03944,01270	1 04973,65229 36,67917	1 44980,92177 26,55541	9,85976,94510,4999 7,22199,6291	10,02108,03077 15,17748	23:24
38	72393,10946,90798 12,04164,53472	1 04936,97312 36,66574	1 44954,36636 26,54126	9,85969,72310,8708 7,22452,0611	10,02092,85329 15,17721	22:48
37	72381,06782,37326 12,04385,02006	1 04900,30738 36,65231	1 44927,82510 26,52713	9,85962,49858,8097 7,22704,5773	10,02077,67608 15,17696	22:12
36	72369,02397,35320 12,04605,46871	1 04863,65507 36,63890	1 44901,29797 26,51301	9,85955,27154,2324 7,22957,1774	10,02062,49912 15,17671	21:36
35	72356,97791,88449 12,04825,88067	1 04827,01617 36,62550	1 44874,78496 26,49889	9,85948,04197,0550 7,23209,8617	10,02047,32241 15,17646	21: 0
34	72344,92966,00382 12,05046,25592	1 04790,39067 36,61210	1 44848,28607 26,48480	9,85940,80987,1933 7,23462,6302	10,02032,14595 15,17622	20:24

GRAD. 46.

43. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	69050,37716,77093	95461,95027	1 38249,71591	9,83916,60551,2910	9,97983,03027	40:12
	12,62341,72330	33,36401	23,04008	7,93881,1651	15,17596	
68	69063,00058,49423	95495,31428	1 38272,75599	9,83924,54432,4561	9,97998,20623	40:48
	12,62131,34536	33,37513	23,05197	7,93603,8023	15,17573	
69	69075,62189,83959	95528,68941	1 38295,80796	9,83932,48036,2584	9,98013,38196	41:24
	12,61920,92899	33,38626	23,06388	7,93326,5409	15,17548	
70	69088,24110,76858	95562,07567	1 38318,87184	9,83940,41362,7993	9,98028,55744	42: 0
	12,61710,47418	33,39741	23,07579	7,93049,3808	15,17524	
71	69100,85821,24276	95595,47308	1 38341,94763	9,83948,34412,1801	9,98043,73268	42:36
	12,61499,98092	33,40855	23,08770	7,92772,3218	15,17500	
72	69113,47321,22368	95628,88163	1 38365,03533	9,83956,27184,5019	9,98058,90768	43:12
	12,61289,44924	33,41970	23,09962	7,92495,3640	15,17476	
73	69126,08610,67292	95662,30133	1 38388,13495	9,83964,19679,8659	9,98074,08244	43:48
	12,61078,87914	33,43086	23,11156	7,92218,5072	15,17453	
74	69138,69689,55206	95695,73219	1 38411,24651	9,83972,11898,3731	9,98089,25697	44:24
	12,60868,27063	33,44204	23,12349	7,91941,7515	15,17429	
75	69151,30557,82269	95729,17423	1 38434,37000	9,83980,03840,1246	9,98104,43126	45: 0
	12,60657,62371	33,45321	23,13544	7,91665,0966	15,17407	
76	69163,91215,44640	95762,62744	1 38457,50544	9,83987,95505,2212	9,98119,60533	45:36
	12,60446,93838	33,46439	23,14740	7,91388,5427	15,17383	
77	69176,51662,38478	95796,09183	1 38480,65284	9,83995,86893,7639	9,98134,77916	46:12
	12,60236,21467	33,47559	23,15935	7,91112,0894	15,17361	
78	69189,11898,59945	95829,56742	1 38503,81219	9,84003,78005,8533	9,98149,95277	46:48
	12,60025,45255	33,48678	23,17132	7,90835,7368	15,17338	
79	69201,71924,05200	95863,05420	1 38526,98351	9,84011,68841,5901	9,98165,12615	47:24
	12,59814,65207	33,49800	23,18330	7,90559,4850	15,17316	
80	69214,31738,70407	95896,55220	1 38550,16681	9,84019,59401,0751	9,98180,29931	48: 0
	12,59603,81320	33,50920	23,19528	7,90283,3335	15,17294	
81	69226,91342,51727	95930,06140	1 38573,36209	9,84027,49684,4086	9,98195,47225	48:36
	12,59392,93596	33,52044	23,20727	7,90007,2828	15,17271	
82	69239,50735,45323	95963,58184	1 38596,56936	9,84035,39691,6914	9,98210,64496	49:12
	12,59182,02036	33,53166	23,21927	7,89731,3322	15,17250	
83	69252,09917,47359	95997,11350	1 38619,78863	9,84043,29423,0236	9,98225,81746	49:48
	12,58971,06640	33,54290	23,23127	7,89455,4822	15,17228	
84	69264,68888,53999	96030,65640	1 38643,01990	9,84051,18878,5058	9,98240,98974	50:24
	12,58760,07409	33,55414	23,24329	7,89179,7323	15,17207	
85	69277,27648,61408	96064,21054	1 38666,26319	9,84059,08058,2381	9,98256,16181	51: 0
	12,58549,04345	33,56540	23,25531	7,88904,0826	15,17185	
86	69289,86197,65753	96097,77594	1 38689,51850	9,84066,96962,3207	9,98271,33366	51:36
	12,58337,97445	33,57666	23,26733	7,88628,5332	15,17164	
87	69302,44535,63198	96131,35260	1 38712,78583	9,84074,85590,8539	9,98286,50530	52:12
	12,58126,86714	33,58793	23,27937	7,88353,0836	15,17144	
88	69315,02662,49912	96164,94053	1 38736,06520	9,84082,73943,9375	9,98301,67674	52:48
	12,57915,72148	33,59921	23,29141	7,88077,7342	15,17122	
89	69327,60578,22060	96198,53974	1 38759,35661	9,84090,62021,6717	9,98316,84796	53:24
	12,57704,53753	33,61049	23,30347	7,87802,4846	15,17103	
90	69340,18282,75813	96232,15023	1 38782,66008	9,84098,49824,1563	9,98332,01899	54: 0
	12,57493,31525	33,62178	23,31552	7,87527,3349	15,17081	
91	69352,75776,07338	96265,77201	1 38805,97560	9,84106,37351,4912	9,98347,18980	54:36
	12,57282,05467	33,63309	23,32758	7,87252,2849	15,17062	
92	69365,33058,12805	96299,40510	1 38829,30318	9,84114,24603,7761	9,98362,36042	55:12
	12,57070,75579	33,64439	23,33966	7,86977,3347	15,17042	
93	69377,90128,88384	96333,04949	1 38852,64284	9,84122,11581,1108	9,98377,53084	55:48
	12,56859,41862	33,65570	23,35174	7,86702,4840	15,17022	
94	69390,46988,30246	96366,70519	1 38875,99458	9,84129,98283,5948	9,98392,70106	56:24
	12,56648,04316	33,66703	23,36382	7,86427,7330	15,17002	
95	69403,03636,34562	96400,37222	1 38899,35840	9,84137,84711,3278	9,98407,87108	57: 0
	12,56436,62942	33,67836	23,37592	7,86153,0813	15,16983	
96	69415,60072,97504	96434,05058	1 38922,73432	9,84145,70864,4091	9,98423,04091	57:36
	12,56225,17741	33,68970	23,38802	7,85878,5292	15,16963	
97	69428,16298,15245	96467,74028	1 38946,12234	9,84153,56742,9383	9,98438,21054	58:12
	12,56013,68713	33,70104	23,40014	7,85604,0764	15,16945	
98	69440,72311,83958	96501,44132	1 38969,52248	9,84161,42347,0147	9,98453,37999	58:48
	12,55802,15859	33,71240	23,41225	7,85329,7228	15,16926	
99	69453,28113,99817	96535,15372	1 38992,93473	9,84169,27676,7375	9,98468,54925	59:24
	12,55590,59180	33,72376	23,42437	7,85055,4685	15,16907	
100	69465,83704,58997	96568,87748	1 39016,35910	9,84177,12732,2060	9,98483,71832	60: 0
	12,55378,98676	33,73513	23,43651	7,84781,3132	15,16888	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	72332,87919,74790 12,05266,59448	1 04753,77857 36,59872	1 44821,80127 26,47070	9,85933,57524,5631 7,23715,4828	10,02016,96973 15,17596	19:48
32	72320,82653,15342 12,05486,89631	1 04717,17985 36,58534	1 44795,33057 26,45661	9,85926,33809,0803 7,23968,4198	10,02001,79377 15,17573	19:12
31	72308,77166,25711 12,05707,16143	1 04680,59451 36,57198	1 44768,87396 26,44255	9,85919,09840,6605 7,24221,4410	10,01986,61804 15,17548	18:36
30	72296,71459,09568 12,05927,38981	1 04644,02253 36,55862	1 44742,43141 26,42847	9,85911,85619,2195 7,24474,5468	10,01971,44256 15,17524	18: 0
29	72284,65531,70587 12,06147,58146	1 04607,46391 36,54527	1 44716,00294 26,41442	9,85904,61144,6727 7,24727,7370	10,01956,26732 15,17500	17:24
28	72272,59384,12441 12,06367,73638	1 04570,91864 36,53194	1 44689,58852 26,40038	9,85897,36416,9357 7,24981,0116	10,01941,09232 15,17476	16:48
27	72260,53016,38803 12,06587,85453	1 04534,38670 36,51860	1 44663,18814 26,38633	9,85890,11435,9241 7,25234,3709	10,01925,91756 15,17453	16:12
26	72248,46428,53350 12,06807,93594	1 04497,86810 36,50529	1 44636,80181 26,37231	9,85882,86201,5532 7,25487,8147	10,01910,74303 15,17429	15:36
25	72236,39620,59756 12,07027,98059	1 04461,36281 36,49198	1 44610,42950 26,35829	9,85875,60713,7385 7,25741,3433	10,01895,56874 15,17407	15: 0
24	72224,32592,61697 12,07247,98847	1 04424,87083 36,47868	1 44584,07121 26,34428	9,85868,34972,3952 7,25994,9567	10,01880,39467 15,17383	14:24
23	72212,25344,62850 12,07467,95957	1 04388,39215 36,46540	1 44557,72693 26,33028	9,85861,08977,4385 7,26248,6548	10,01865,22084 15,17361	13:48
22	72200,17876,66893 12,07687,89389	1 04351,92675 36,45211	1 44531,39665 26,31629	9,85853,82728,7837 7,26502,4377	10,01850,04723 15,17338	13:12
21	72188,10188,77504 12,07907,79142	1 04315,47464 36,43884	1 44505,08036 26,30230	9,85846,56226,3460 7,26756,3057	10,01834,87385 15,17316	12:36
20	72176,02280,98362 12,08127,65216	1 04279,03580 36,42557	1 44478,77806 26,28834	9,85839,29470,0403 7,27010,2586	10,01819,70069 15,17294	12: 0
19	72163,94153,33146 12,08347,47609	1 04242,61023 36,41233	1 44452,48972 26,27437	9,85832,02459,7817 7,27264,2965	10,01804,52775 15,17271	11:24
18	72151,85805,85537 12,08567,26323	1 04206,19790 36,39908	1 44426,21535 26,26041	9,85824,75195,4852 7,27518,4195	10,01789,35504 15,17250	10:48
17	72139,77238,59214 12,08787,01354	1 04169,79882 36,38586	1 44399,95494 26,24648	9,85817,47677,0657 7,27772,6277	10,01774,18254 15,17228	10:12
16	72127,68451,57860 12,09006,72702	1 04133,41296 36,37262	1 44373,70846 26,23253	9,85810,19904,4380 7,28026,9211	10,01759,01026 15,17207	9:36
15	72115,59444,85158 12,09226,40369	1 04097,04034 36,35942	1 44347,47593 26,21861	9,85802,91877,5169 7,28281,2997	10,01743,83819 15,17185	9: 0
14	72103,50218,44789 12,09446,04352	1 04060,68092 36,34620	1 44321,25732 26,20469	9,85795,63596,2172 7,28535,7638	10,01728,66634 15,17164	8:24
13	72091,40772,40437 12,09665,64650	1 04024,33472 36,33302	1 44295,05263 26,19078	9,85788,35060,4534 7,28790,3131	10,01713,49470 15,17144	7:48
12	72079,31106,75787 12,09885,21264	1 03988,00170 36,31982	1 44268,86185 26,17689	9,85781,06270,1403 7,29044,9479	10,01698,32326 15,17122	7:12
11	72067,21221,54523 12,10104,74193	1 03951,68188 36,30665	1 44242,68496 26,16299	9,85773,77225,1924 7,29299,6683	10,01683,15204 15,17103	6:36
10	72055,11116,80330 12,10324,23434	1 03915,37523 36,29349	1 44216,52197 26,14912	9,85766,47925,5241 7,29554,4742	10,01667,98101 15,17081	6: 0
9	72043,00792,56896 12,10543,68989	1 03879,08174 36,28032	1 44190,37285 26,13524	9,85759,18371,0499 7,29809,3657	10,01652,81020 15,17062	5:24
8	72030,90248,87907 12,10763,10857	1 03842,80142 36,26718	1 44164,23761 26,12138	9,85751,88561,6842 7,30064,3429	10,01637,63958 15,17042	4:48
7	72018,79485,77050 12,10982,49036	1 03806,53424 36,25404	1 44138,11623 26,10752	9,85744,58497,3413 7,30319,4058	10,01622,46916 15,17022	4:12
6	72006,68503,28014 12,11201,83527	1 03770,28020 36,24090	1 44112,00871 26,09368	9,85737,28177,9355 7,30574,5546	10,01607,29894 15,17002	3:36
5	71994,57301,44487 12,11421,14328	1 03734,03930 36,22779	1 44085,91503 26,07985	9,85729,97603,3809 7,30829,7891	10,01592,12892 15,16983	3: 0
4	71982,45880,30159 12,11640,41439	1 03697,81151 36,21468	1 44059,83518 26,06602	9,85722,66773,5918 7,31085,1097	10,01576,95909 15,16963	2:24
3	71970,34239,88720 12,11859,64859	1 03661,59683 36,20157	1 44033,76916 26,05220	9,85715,35688,4821 7,31340,5161	10,01561,78946 15,16945	1:48
2	71958,22380,23861 12,12078,84587	1 03625,39526 36,18848	1 44007,71696 26,03840	9,85708,04347,9660 7,31596,0087	10,01546,62001 15,16926	1:12
1	71946,10301,39274 12,12298,00623	1 03589,20678 36,17540	1 43981,67856 26,02460	9,85700,72751,9573 7,31851,5872	10,01531,45075 15,16907	0:36
0	71933,98003,38651 12,12517,12966	1 03553,03138 36,16233	1 43955,65396 26,01080	9,85693,40900,3701 7,32107,2521	10,01516,28168 15,16888	0: 0

GRAD. 46.

44. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
0	69465,83704,58997	96568,87748	1 39016,35910	9,84177,12732,2060	9,98483,71832	0: 0
	12,55378,98676	33,73513	23,43651	7,84781,3132	15,16888	
1	69478,39083,57673	96602,61261	1 39039,79561	9,84184,97513,5192	9,98498,88720	0:36
	12,55167,34348	33,74651	23,44865	7,84507,2571	15,16871	
2	69490,94250,92021	96636,35912	1 39063,24426	9,84192,82020,7763	9,98514,05591	1:12
	12,54955,66197	33,75789	23,46080	7,84233,3000	15,16852	
3	69503,49206,58218	96670,11701	1 39086,70506	9,84200,66254,0763	9,98529,22443	1:48
	12,54743,94222	33,76929	23,47295	7,83959,4417	15,16834	
4	69516,03950,52440	96703,88630	1 39110,17801	9,84208,50213,5180	9,98544,39277	2:24
	12,54532,18425	33,78069	23,48511	7,83685,6823	15,16816	
5	69528,58482,70865	96737,66699	1 39133,66312	9,84216,33899,2003	9,98559,56093	3: 0
	12,54320,38808	33,79210	23,49729	7,83412,0218	15,16799	
6	69541,12803,09673	96771,45909	1 39157,16041	9,84224,17311,2221	9,98574,72892	3:36
	12,54108,55368	33,80351	23,50947	7,83138,4598	15,16782	
7	69553,66911,65041	96805,26260	1 39180,66988	9,84232,00449,6819	9,98589,89674	4:12
	12,53896,68110	33,81494	23,52165	7,82864,9966	15,16764	
8	69566,20808,33151	96839,07754	1 39204,19153	9,84239,83314,6785	9,98605,06438	4:48
	12,53684,77030	33,82637	23,53384	7,82591,6319	15,16747	
9	69578,74493,10181	96872,90391	1 39227,72537	9,84247,65906,3104	9,98620,23185	5:24
	12,53472,82133	33,83781	23,54604	7,82318,3658	15,16731	
10	69591,27965,92314	96906,74172	1 39251,27141	9,84255,48224,6762	9,98635,39916	6: 0
	12,53260,83417	33,84926	23,55826	7,82045,1980	15,16714	
11	69603,81226,75731	96940,59098	1 39274,82967	9,84263,30269,8742	9,98650,56630	6:36
	12,53048,80884	33,86071	23,57047	7,81772,1286	15,16697	
12	69616,34275,56615	96974,45169	1 39298,40014	9,84271,12042,0028	9,98665,73327	7:12
	12,52836,74532	33,87218	23,58269	7,81499,1575	15,16681	
13	69628,87112,31147	97008,32387	1 39321,98283	9,84278,93541,1603	9,98680,90008	7:48
	12,52624,64366	33,88365	23,59493	7,81226,2847	15,16665	
14	69641,39736,95513	97042,20752	1 39345,57776	9,84286,74767,4450	9,98696,06673	8:24
	12,52412,50383	33,89514	23,60717	7,80953,5100	15,16650	
15	69653,92149,45896	97076,10266	1 39369,18493	9,84294,55720,9550	9,98711,23323	9: 0
	12,52200,32585	33,90661	23,61941	7,80680,8333	15,16633	
16	69666,44349,78481	97110,00927	1 39392,80434	9,84302,36401,7883	9,98726,39956	9:36
	12,51988,10973	33,91812	23,63167	7,80408,2547	15,16618	
17	69678,96337,89454	97143,92739	1 39416,43601	9,84310,16810,0430	9,98741,56574	10:12
	12,51775,85547	33,92962	23,64393	7,80135,7741	15,16602	
18	69691,48113,75001	97177,85701	1 39440,07994	9,84317,96945,8171	9,98756,73176	10:48
	12,51563,56307	33,94112	23,65619	7,79863,3913	15,16588	
19	69703,99677,31308	97211,79813	1 39463,73613	9,84325,76809,2084	9,98771,89764	11:24
	12,51351,23257	33,95265	23,66848	7,79591,1063	15,16572	
20	69716,51028,54565	97245,75078	1 39487,40461	9,84333,56400,3147	9,98787,06336	12: 0
	12,51138,86392	33,96418	23,68076	7,79318,9190	15,16558	
21	69729,02167,40957	97279,71496	1 39511,08537	9,84341,35719,2337	9,98802,22894	12:36
	12,50926,45718	33,97571	23,69306	7,79046,8295	15,16543	
22	69741,53093,86675	97313,69067	1 39534,77843	9,84349,14766,0632	9,98817,39437	13:12
	12,50714,01233	33,98725	23,70536	7,78774,8374	15,16529	
23	69754,03807,87908	97347,67792	1 39558,48379	9,84356,93540,9006	9,98832,55966	13:48
	12,50501,52938	33,99881	23,71766	7,78502,9431	15,16514	
24	69766,54309,40846	97381,67673	1 39582,20145	9,84364,72043,8437	9,98847,72480	14:24
	12,50289,00834	34,01036	23,72998	7,78231,1460	15,16500	
25	69779,04598,41680	97415,68709	1 39605,93143	9,84372,50274,9897	9,98862,88980	15: 0
	12,50076,44921	34,02193	23,74231	7,77959,4464	15,16487	
26	69791,54674,86601	97449,70902	1 39629,67374	9,84380,28234,4361	9,98878,05467	15:36
	12,49863,85200	34,03351	23,75464	7,77687,8442	15,16473	
27	69804,04538,71801	97483,74253	1 39653,42838	9,84388,05922,2803	9,98893,21940	16:12
	12,49651,21672	34,04509	23,76697	7,77416,3391	15,16459	
28	69816,54189,93473	97517,78762	1 39677,19535	9,84395,83338,6194	9,98908,38399	16:48
	12,49438,54337	34,05668	23,77933	7,77144,9313	15,16446	
29	69829,03628,47810	97551,84430	1 39700,97468	9,84403,60483,5507	9,98923,54845	17:24
	12,49225,83196	34,06828	23,79168	7,76873,6205	15,16433	
30	69841,52854,31006	97585,91258	1 39724,76636	9,84411,37357,1712	9,98938,71278	18: 0
	12,49013,08250	34,07988	23,80404	7,76602,4069	15,16420	
31	69854,01867,39256	97619,99246	1 39748,57040	9,84419,13959,5781	9,98953,87698	18:36
	12,48800,29499	34,09150	23,81641	7,76331,2902	15,16407	
32	69866,50667,68755	97654,08396	1 39772,38681	9,84426,90290,8683	9,98969,04105	19:12
	12,48587,46944	34,10313	23,82879	7,76060,2704	15,16395	
33	69878,99255,15699	97688,18709	1 39796,21560	9,84434,66351,1387	9,98984,20500	19:48
	12,48374,60586	34,11475	23,84118	7,75789,3475	15,16382	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
100	71933,98003,38651 12,12517,12966	1 03553,03138 36,16233	1 43955,65396 26,01080	9,85693,40900,3701 7,32107,2521	10,01516,28168 15,16888	60: 0
99	71921,85486,25685 12,12736,21617	1 03516,86905 36,14926	1 43929,64316 25,99703	9,85686,08793,1180 7,32363,0030	10,01501,11280 15,16871	59:24
98	71909,72750,04068 12,12955,26572	1 03480,71979 36,13620	1 43903,64613 25,98326	9,85678,76430,1150 7,32618,8402	10,01485,94409 15,16852	58:48
97	71897,59794,77496 12,13174,27833	1 03444,58359 36,12316	1 43877,66287 25,96949	9,85671,43811,2748 7,32874,7639	10,01470,77557 15,16834	58:12
96	71885,46620,49663 12,13393,25398	1 03408,46043 36,11012	1 43851,69338 25,95574	9,85664,10936,5109 7,33130,7737	10,01455,60723 15,16816	57:36
95	71873,33227,24265 12,13612,19266	1 03372,35031 36,09710	1 43825,73764 25,94199	9,85656,77805,7372 7,33386,8702	10,01440,43907 15,16799	57: 0
94	71861,19615,04999 12,13831,09439	1 03336,25321 36,08407	1 43799,79565 25,92826	9,85649,44418,8670 7,33643,0532	10,01425,27108 15,16782	56:24
93	71849,05783,95560 12,14049,95914	1 03300,16914 36,07107	1 43773,86739 25,91453	9,85642,10775,8138 7,33899,3226	10,01410,10326 15,16764	55:48
92	71836,91733,99646 12,14268,78690	1 03264,09807 36,05807	1 43747,95286 25,90082	9,85634,76876,4912 7,34155,6787	10,01394,93562 15,16747	55:12
91	71824,77465,20956 12,14487,57767	1 03228,04000 36,04507	1 43722,05204 25,88710	9,85627,42720,8125 7,34412,1215	10,01379,76815 15,16731	54:36
90	71812,62977,63189 12,14706,33145	1 03191,99493 36,03210	1 43696,16494 25,87341	9,85620,08308,6910 7,34668,6511	10,01364,60084 15,16714	54: 0
89	71800,48271,30044 12,14925,04823	1 03155,96283 36,01912	1 43670,29153 25,85972	9,85612,73640,0399 7,34925,2674	10,01349,43370 15,16697	53:24
88	71788,33346,25221 12,15143,72800	1 03119,94371 36,00616	1 43644,43181 25,84603	9,85605,38714,7725 7,35181,9706	10,01334,26673 15,16681	52:48
87	71776,18202,52421 12,15362,37076	1 03083,93755 35,99321	1 43618,58578 25,83236	9,85598,03532,8019 7,35438,7608	10,01319,09992 15,16665	52:12
86	71764,02840,15345 12,15580,97648	1 03047,94434 35,98026	1 43592,75342 25,81870	9,85590,68094,0411 7,35695,6379	10,01303,93327 15,16650	51:36
85	71751,87259,17697 12,15799,54518	1 03011,96408 35,96732	1 43566,93472 25,80505	9,85583,32398,4032 7,35952,6021	10,01288,76677 15,16633	51: 0
84	71739,71459,63179 12,16018,07686	1 02975,99676 35,95440	1 43541,12967 25,79139	9,85575,96445,8011 7,36209,6534	10,01273,60044 15,16618	50:24
83	71727,55441,55493 12,16236,57147	1 02940,04236 35,94149	1 43515,33828 25,77777	9,85568,60236,1477 7,36466,7918	10,01258,43426 15,16602	49:48
82	71715,39204,98346 12,16455,02906	1 02904,10087 35,92857	1 43489,56051 25,76413	9,85561,23769,3559 7,36724,0174	10,01243,26824 15,16588	49:12
81	71703,22749,95440 12,16673,44957	1 02868,17230 35,91568	1 43463,79638 25,75051	9,85553,87045,3385 7,36981,3304	10,01228,10236 15,16572	48:36
80	71691,06076,50483 12,16891,83304	1 02832,25662 35,90278	1 43438,04587 25,73691	9,85546,50064,0081 7,37238,7308	10,01212,93664 15,16558	48: 0
79	71678,89184,67179 12,17110,17942	1 02796,35384 35,88991	1 43412,30896 25,72330	9,85539,12825,2773 7,37496,2184	10,01197,77106 15,16543	47:24
78	71666,72074,49237 12,17328,48874	1 02760,46393 35,87703	1 43386,58566 25,70971	9,85531,75329,0589 7,37753,7935	10,01182,60563 15,16529	46:48
77	71654,54746,00363 12,17546,76097	1 02724,58690 35,86418	1 43360,87595 25,69613	9,85524,37575,2654 7,38011,4563	10,01167,44034 15,16514	46:12
76	71642,37199,24266 12,17764,99612	1 02688,72272 35,85131	1 43335,17982 25,68255	9,85516,99563,8091 7,38269,2066	10,01152,27520 15,16500	45:36
75	71630,19434,24654 12,17983,19416	1 02652,87141 35,83848	1 43309,49727 25,66899	9,85509,61294,6025 7,38527,0444	10,01137,11020 15,16487	45: 0
74	71618,01451,05238 12,18201,35512	1 02617,03293 35,82564	1 43283,82828 25,65543	9,85502,22767,5581 7,38784,9701	10,01121,94533 15,16473	44:24
73	71605,83249,69726 12,18419,47895	1 02581,20729 35,81281	1 43258,17285 25,64188	9,85494,83982,5880 7,39042,9836	10,01106,78060 15,16459	43:48
72	71593,64830,21831 12,18637,56567	1 02545,39448 35,80000	1 43232,53097 25,62834	9,85487,44939,6044 7,39301,0847	10,01091,61601 15,16446	43:12
71	71581,46192,65264 12,18855,61528	1 02509,59448 35,78719	1 43206,90263 25,61481	9,85480,05638,5197 7,39559,2738	10,01076,45155 15,16433	42:36
70	71569,27337,03736 12,19073,62775	1 02473,80729 35,77439	1 43181,28782 25,60129	9,85472,66079,2459 7,39817,5509	10,01061,28722 15,16420	42: 0
69	71557,08263,40961 12,19291,60309	1 02438,03290 35,76160	1 43155,68653 25,58778	9,85465,26261,6950 7,40075,9160	10,01046,12302 15,16407	41:24
68	71544,88971,80652 12,19509,54129	1 02402,27130 35,74881	1 43130,09875 25,57427	9,85457,86185,7790 7,40334,3691	10,01030,95895 15,16395	40:48
67	71532,69462,26523 12,19727,44233	1 02366,52249 35,73605	1 43104,52448 25,56078	9,85450,45851,4099 7,40592,9104	10,01015,79500 15,16382	40:12

GRAD. 45.

44. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	69878,99255,15699 12,48374,60586	97688,18709 34,11475	1 39796,21560 23,84118	9,84434,66351,1387 7,75789,3475	9,98984,20500 15,16382	19:48
34	69891,47629,76285 12,48161,70425	97722,30184 34,12640	1 39820,05678 23,85357	9,84442,42140,4862 7,75518,5213	9,98999,36882 15,16370	20:24
35	69903,95791,46710 12,47948,76461	97756,42824 34,13804	1 39843,91035 23,86597	9,84450,17659,0075 7,75247,7918	9,99014,53252 15,16358	21: 0
36	69916,43740,23171 12,47735,78697	97790,56628 34,14969	1 39867,77632 23,87838	9,84457,92906,7993 7,74977,1590	9,99029,69610 15,16346	21:36
37	69928,91476,01868 12,47522,77131	97824,71597 34,16136	1 39891,65470 23,89080	9,84465,67883,9583 7,74706,6227	9,99044,85956 15,16335	22:12
38	69941,38998,78999 12,47309,71766	97858,87733 34,17303	1 39915,54550 23,90322	9,84473,42590,5810 7,74436,1830	9,99060,02291 15,16323	22:48
39	69953,86308,50765 12,47096,62600	97893,05036 34,18471	1 39939,44872 23,91566	9,84481,17026,7640 7,74165,8397	9,99075,18614 15,16312	23:24
40	69966,33405,13365 12,46883,49637	97927,23507 34,19640	1 39963,36438 23,92810	9,84488,91192,6037 7,73895,5927	9,99090,34926 15,16301	24: 0
41	69978,80288,63002 12,46670,32874	97961,43147 34,20809	1 39987,29248 23,94055	9,84496,65088,1964 7,73625,4420	9,99105,51227 15,16290	24:36
42	69991,26958,95876 12,46457,12314	97995,63956 34,21980	1 40011,23303 23,95300	9,84504,38713,6384 7,73355,3876	9,99120,67517 15,16279	25:12
43	70003,73416,08190 12,46243,87957	98029,85936 34,23151	1 40035,18603 23,96546	9,84512,12069,0260 7,73085,4293	9,99135,83796 15,16268	25:48
44	70016,19659,96147 12,46030,59804	98064,09087 34,24322	1 40059,15149 23,97794	9,84519,85154,4553 7,72815,5672	9,99151,00064 15,16259	26:24
45	70028,65690,55951 12,45817,27855	98098,33409 34,25496	1 40083,12943 23,99042	9,84527,57970,0225 7,72545,8010	9,99166,16323 15,16248	27: 0
46	70041,11507,83806 12,45603,92112	98132,58905 34,26669	1 40107,11985 24,00291	9,84535,30515,8235 7,72276,1308	9,99181,32571 15,16238	27:36
47	70053,57111,75918 12,45390,52574	98166,85574 34,27844	1 40131,12276 24,01540	9,84543,02791,9543 7,72006,5565	9,99196,48809 15,16228	28:12
48	70066,02502,28492 12,45177,09242	98201,13418 34,29018	1 40155,13816 24,02791	9,84550,74798,5108 7,71737,0780	9,99211,65037 15,16219	28:48
49	70078,47679,37734 12,44963,62117	98235,42436 34,30195	1 40179,16607 24,04042	9,84558,46535,5888 7,71467,6953	9,99226,81256 15,16209	29:24
50	70090,92642,99851 12,44750,11200	98269,72631 34,31372	1 40203,20649 24,05293	9,84566,18003,2841 7,71198,4082	9,99241,97465 15,16200	30: 0
51	70103,37393,11051 12,44536,56491	98304,04003 34,32549	1 40227,25942 24,06547	9,84573,89201,6923 7,70929,2168	9,99257,13665 15,16191	30:36
52	70115,81929,67542 12,44322,97992	98338,36552 34,33728	1 40251,32489 24,07800	9,84581,60130,9091 7,70660,1210	9,99272,29856 15,16182	31:12
53	70128,26252,65534 12,44109,35701	98372,70280 34,34907	1 40275,40289 24,09054	9,84589,30791,0301 7,70391,1205	9,99287,46038 15,16174	31:48
54	70140,70362,01235 12,43895,69621	98407,05187 34,36087	1 40299,49343 24,10310	9,84597,01182,1506 7,70122,2156	9,99302,62212 15,16165	32:24
55	70153,14257,70856 12,43681,99751	98441,41274 34,37268	1 40323,59653 24,11565	9,84604,71304,3662 7,69853,4060	9,99317,78377 15,16156	33: 0
56	70165,57939,70607 12,43468,26094	98475,78542 34,38450	1 40347,71218 24,12822	9,84612,41157,7722 7,69584,6917	9,99332,94533 15,16149	33:36
57	70178,01407,96701 12,43254,48649	98510,16992 34,39633	1 40371,84040 24,14080	9,84620,10742,4639 7,69316,0725	9,99348,10682 15,16140	34:12
58	70190,44662,45350 12,43040,67416	98544,56625 34,40815	1 40395,98120 24,15338	9,84627,80058,5364 7,69047,5486	9,99363,26822 15,16133	34:48
59	70202,87703,12766 12,42826,82396	98578,97440 34,42000	1 40420,13458 24,16597	9,84635,49106,0850 7,68779,1197	9,99378,42955 15,16126	35:24
60	70215,30529,95162 12,42612,93592	98613,39440 34,43185	1 40444,30055 24,17856	9,84643,17885,2047 7,68510,7859	9,99393,59081 15,16117	36: 0
61	70227,73142,88754 12,42399,01001	98647,82625 34,44371	1 40468,47911 24,19118	9,84650,86395,9906 7,68242,5469	9,99408,75198 15,16111	36:36
62	70240,15541,89755 12,42185,04627	98682,26996 34,45558	1 40492,67029 24,20379	9,84658,54638,5375 7,67974,4029	9,99423,91309 15,16104	37:12
63	70252,57726,94382 12,41971,04467	98716,72554 34,46745	1 40516,87408 24,21641	9,84666,22612,9404 7,67706,3537	9,99439,07413 15,16096	37:48
64	70264,99697,98849 12,41757,00526	98751,19299 34,47933	1 40541,09049 24,22905	9,84673,90319,2941 7,67438,3993	9,99454,23509 15,16091	38:24
65	70277,41454,99375 12,41542,92801	98785,67232 34,49123	1 40565,31954 24,24168	9,84681,57757,6934 7,67170,5394	9,99469,39600 15,16083	39: 0
66	70289,82997,92176 12,41328,81294	98820,16355 34,50313	1 40589,56122 24,25433	9,84689,24928,2328 7,66902,7743	9,99484,55683 15,16078	39:36

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	71532,69462,26523 12,19727,44233	1 02366,52249 35,73605	1 43104,52448 25,56078	9,85450,45851,4099 7,40592,9104	10,01015,79500 15,16382	40:12
66	71520,49734,82290 12,19945,30623	1 02330,78644 35,72329	1 43078,96370 25,54729	9,85443,05258,4995 7,40851,5399	10,01000,63118 15,16370	39:36
65	71508,29789,51667 12,20163,13295	1 02295,06315 35,71053	1 43053,41641 25,53382	9,85435,64406,9596 7,41110,2576	10,00985,46748 15,16358	39: 0
64	71496,09626,38372 12,20380,92253	1 02259,35262 35,69778	1 43027,88259 25,52034	9,85428,23296,7020 7,41369,0636	10,00970,30390 15,16346	38:24
63	71483,89245,46119 12,20598,67491	1 02223,65484 35,68506	1 43002,36225 25,50689	9,85420,81927,6384 7,41627,9580	10,00955,14044 15,16335	37:48
62	71471,68646,78628 12,20816,39011	1 02187,96978 35,67232	1 42976,85536 25,49343	9,85413,40299,6804 7,41886,9409	10,00939,97709 15,16323	37:12
61	71459,47830,39617 12,21034,06814	1 02152,29746 35,65961	1 42951,36193 25,48000	9,85405,98412,7395 7,42146,0122	10,00924,81386 15,16312	36:36
60	71447,26796,32803 12,21251,70895	1 02116,63785 35,64689	1 42925,88193 25,46655	9,85398,56266,7273 7,42405,1721	10,00909,65074 15,16301	36: 0
59	71435,05544,61908 12,21469,31258	1 02080,99096 35,63420	1 42900,41538 25,45314	9,85391,13861,5552 7,42664,4206	10,00894,48773 15,16290	35:24
58	71422,84075,30650 12,21686,87900	1 02045,35676 35,62151	1 42874,96224 25,43971	9,85383,71197,1346 7,42923,7578	10,00879,32483 15,16279	34:48
57	71410,62388,42750 12,21904,40819	1 02009,73525 35,60882	1 42849,52253 25,42631	9,85376,28273,3768 7,43183,1838	10,00864,16204 15,16268	34:12
56	71398,40484,01931 12,22121,90017	1 01974,12643 35,59615	1 42824,09622 25,41291	9,85368,85090,1930 7,43442,6985	10,00848,99936 15,16259	33:36
55	71386,18362,11914 12,22339,35493	1 01938,53028 35,58349	1 42798,68331 25,39952	9,85361,41647,4945 7,43702,3021	10,00833,83677 15,16248	33: 0
54	71373,96022,76421 12,22556,77243	1 01902,94679 35,57084	1 42773,28379 25,38614	9,85353,97945,1924 7,43961,9946	10,00818,67429 15,16238	32:24
53	71361,73465,99178 12,22774,15272	1 01867,37595 35,55818	1 42747,89765 25,37276	9,85346,53983,1978 7,44221,7762	10,00803,51191 15,16228	31:48
52	71349,50691,83906 12,22991,49573	1 01831,81777 35,54555	1 42722,52489 25,35940	9,85339,09761,4216 7,44481,6468	10,00788,34963 15,16219	31:12
51	71337,27700,34333 12,23208,80151	1 01796,27222 35,53292	1 42697,16549 25,34605	9,85331,65279,7748 7,44741,6064	10,00773,18744 15,16209	30:36
50	71325,04491,54182 12,23426,07003	1 01760,73930 35,52030	1 42671,81944 25,33270	9,85324,20538,1684 7,45001,6553	10,00758,02535 15,16200	30: 0
49	71312,81065,47179 12,23643,30126	1 01725,21900 35,50770	1 42646,48674 25,31936	9,85316,75536,5131 7,45261,7934	10,00742,86335 15,16191	29:24
48	71300,57422,17053 12,23860,49523	1 01689,71130 35,49508	1 42621,16738 25,30603	9,85309,30274,7197 7,45522,0207	10,00727,70144 15,16182	28:48
47	71288,33561,67530 12,24077,65192	1 01654,21622 35,48250	1 42595,86135 25,29271	9,85301,84752,6990 7,45782,3375	10,00712,53962 15,16174	28:12
46	71276,09484,02338 12,24294,77133	1 01618,73372 35,46991	1 42570,56864 25,27940	9,85294,38970,3615 7,46042,7437	10,00697,37788 15,16165	27:36
45	71263,85189,25205 12,24511,85342	1 01583,26381 35,45734	1 42545,28924 25,26609	9,85286,92927,6178 7,46303,2393	10,00682,21623 15,16156	27: 0
44	71251,60677,39863 12,24728,89824	1 01547,80647 35,44477	1 42520,02315 25,25280	9,85279,46624,3785 7,46563,8245	10,00667,05467 15,16149	26:24
43	71239,35948,50039 12,24945,90573	1 01512,36170 35,43222	1 42494,77035 25,23951	9,85272,00060,5540 7,46824,4993	10,00651,89318 15,16140	25:48
42	71227,11002,59466 12,25162,87592	1 01476,92948 35,41966	1 42469,53084 25,22623	9,85264,53236,0547 7,47085,2638	10,00636,73178 15,16133	25:12
41	71214,85839,71874 12,25379,80878	1 01441,50982 35,40713	1 42444,30461 25,21297	9,85257,06150,7909 7,47346,1179	10,00621,57045 15,16126	24:36
40	71202,60459,90996 12,25596,70431	1 01406,10269 35,39459	1 42419,09164 25,19970	9,85249,58804,6730 7,47607,0620	10,00606,40919 15,16117	24: 0
39	71190,34863,20565 12,25813,56252	1 01370,70810 35,38207	1 42393,89194 25,18646	9,85242,11197,6110 7,47868,0958	10,00591,24802 15,16111	23:24
38	71178,09049,64313 12,26030,38338	1 01335,32603 35,36956	1 42368,70548 25,17320	9,85234,63329,5152 7,48129,2195	10,00576,08691 15,16104	22:48
37	71165,83019,25975 12,26247,16690	1 01299,95647 35,35705	1 42343,53228 25,15998	9,85227,15200,2957 7,48390,4333	10,00560,92587 15,16096	22:12
36	71153,56772,09285 12,26463,91305	1 01264,59942 35,34456	1 42318,37230 25,14674	9,85219,66809,8624 7,48651,7371	10,00545,76491 15,16091	21:36
35	71141,30308,17980 12,26680,62186	1 01229,25486 35,33207	1 42293,22556 25,13353	9,85212,18158,1253 7,48913,1310	10,00530,60400 15,16083	21: 0
34	71129,03627,55794 12,26897,29330	1 01193,92279 35,31960	1 42268,09203 25,12032	9,85204,69244,9943 7,49174,6150	10,00515,44317 15,16078	20:24

GRAD. 45.

44. GRAD.

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
67	70302,24326,73470	98854,66668	1 40613,81555	9,84696,91831,0071	9,99499,71761	40:12
	12,41114,66007	34,51503	24,26698	7,66635,1037	15,16071	
68	70314,65441,39477	98889,18171	1 40638,08253	9,84704,58466,1108	9,99514,87832	40:48
	12,40900,46938	34,52695	24,27965	7,66367,5276	15,16065	
69	70327,06341,86415	98923,70866	1 40662,36218	9,84712,24833,6384	9,99530,03897	41:24
	12,40686,24089	34,53887	24,29232	7,66100,0459	15,16060	
70	70339,47028,10504	98958,24753	1 40686,65450	9,84719,90933,6843	9,99545,19957	42: 0
	12,40471,97461	34,55081	24,30500	7,65832,6585	15,16054	
71	70351,87500,07965	98992,79834	1 40710,95950	9,84727,56766,3428	9,99560,36011	42:36
	12,40257,67055	34,56275	24,31768	7,65565,3654	15,16049	
72	70364,27757,75020	99027,36109	1 40735,27718	9,84735,22331,7082	9,99575,52060	43:12
	12,40043,32871	34,57469	24,33038	7,65298,1666	15,16043	
73	70376,67801,07891	99061,93578	1 40759,60756	9,84742,87629,8748	9,99590,68103	43:48
	12,39828,94908	34,58666	24,34309	7,65031,0619	15,16039	
74	70389,07630,02799	99096,52244	1 40783,95065	9,84750,52660,9367	9,99605,84142	44:24
	12,39614,53169	34,59862	24,35579	7,64764,0512	15,16034	
75	70401,47244,55968	99131,12106	1 40808,30644	9,84758,17424,9879	9,99621,00176	45: 0
	12,39400,07655	34,61059	24,36851	7,64497,1347	15,16029	
76	70413,86644,63623	99165,73165	1 40832,67495	9,84765,81922,1226	9,99636,16205	45:36
	12,39185,58364	34,62258	24,38124	7,64230,3120	15,16025	
77	70426,25830,21987	99200,35423	1 40857,05619	9,84773,46152,4346	9,99651,32230	46:12
	12,38971,05300	34,63457	24,39398	7,63963,5833	15,16020	
78	70438,64801,27287	99234,98880	1 40881,45017	9,84781,10116,0179	9,99666,48250	46:48
	12,38756,48460	34,64657	24,40672	7,63696,9484	15,16017	
79	70451,03557,75747	99269,63537	1 40905,85689	9,84788,73812,9663	9,99681,64267	47:24
	12,38541,87848	34,65858	24,41947	7,63430,4072	15,16012	
80	70463,42099,63595	99304,29395	1 40930,27636	9,84796,37243,3735	9,99696,80279	48: 0
	12,38327,23462	34,67059	24,43224	7,63163,9597	15,16009	
81	70475,80426,87057	99338,96454	1 40954,70860	9,84804,00407,3332	9,99711,96288	48:36
	12,38112,55304	34,68261	24,44500	7,62897,6059	15,16005	
82	70488,18539,42361	99373,64715	1 40979,15360	9,84811,63304,9391	9,99727,12293	49:12
	12,37897,83376	34,69465	24,45777	7,62631,3456	15,16002	
83	70500,56437,25737	99408,34180	1 41003,61137	9,84819,25936,2847	9,99742,28295	49:48
	12,37683,07675	34,70669	24,47056	7,62365,1788	15,15999	
84	70512,94120,33412	99443,04849	1 41028,08193	9,84826,88301,4635	9,99757,44294	50:24
	12,37468,28206	34,71874	24,48336	7,62099,1054	15,15996	
85	70525,31588,61618	99477,76723	1 41052,56529	9,84834,50400,5689	9,99772,60290	51: 0
	12,37253,44965	34,73080	24,49615	7,61833,1255	15,15993	
86	70537,68842,06583	99512,49803	1 41077,06144	9,84842,12233,6944	9,99787,76283	51:36
	12,37038,57957	34,74287	24,50896	7,61567,2387	15,15991	
87	70550,05880,64540	99547,24090	1 41101,57040	9,84849,73800,9331	9,99802,92274	52:12
	12,36823,67181	34,75493	24,52178	7,61301,4453	15,15988	
88	70562,42704,31721	99581,99583	1 41126,09218	9,84857,35102,3784	9,99818,08262	52:48
	12,36608,72635	34,76703	24,53461	7,61035,7450	15,15986	
89	70574,79313,04356	99616,76286	1 41150,62679	9,84864,96138,1234	9,99833,24248	53:24
	12,36393,74325	34,77911	24,54743	7,60770,1378	15,15984	
90	70587,15706,78681	99651,54197	1 41175,17422	9,84872,56908,2612	9,99848,40232	54: 0
	12,36178,72247	34,79121	24,56028	7,60504,6237	15,15982	
91	70599,51885,50928	99686,33318	1 41199,73450	9,84880,17412,8849	9,99863,56214	54:36
	12,35963,66404	34,80333	24,57313	7,60239,2024	15,15980	
92	70611,87849,17332	99721,13651	1 41224,30763	9,84887,77652,0873	9,99878,72194	55:12
	12,35748,56795	34,81543	24,58599	7,59973,8742	15,15979	
93	70624,23597,74127	99755,95194	1 41248,89362	9,84895,37625,9615	9,99893,88173	55:48
	12,35533,43423	34,82757	24,59885	7,59708,6388	15,15978	
94	70636,59131,17550	99790,77951	1 41273,49247	9,84902,97334,6003	9,99909,04151	56:24
	12,35318,26287	34,83970	24,61173	7,59443,4961	15,15977	
95	70648,94449,43837	99825,61921	1 41298,10420	9,84910,56778,0964	9,99924,20128	57: 0
	12,35103,05388	34,85184	24,62461	7,59178,4462	15,15975	
96	70661,29552,49225	99860,47105	1 41322,72881	9,84918,15956,5426	9,99939,36103	57:36
	12,34887,80726	34,86399	24,63750	7,58913,4889	15,15975	
97	70673,64440,29951	99895,33504	1 41347,36631	9,84925,74870,0315	9,99954,52078	58:12
	12,34672,52303	34,87615	24,65040	7,58648,6243	15,15974	
98	70685,99112,82254	99930,21119	1 41372,01671	9,84933,33518,6558	9,99969,68052	58:48
	12,34457,20119	34,88832	24,66330	7,58383,8520	15,15974	
99	70698,33570,02373	99965,09951	1 41396,68001	9,84940,91902,5078	9,99984,84026	59:24
	12,34241,84175	34,90049	24,67623	7,58119,1723	15,15974	
100	70710,67811,86548	1 00000,00000	1 41421,35624	9,84948,50021,6801	1,00000,000000	60: 0
	12,34026,44470	34,91268	24,68914	7,57854,5850	15,15974	

Centesimæ	*Sinus.*	*Tangentes.*	*Secantes.*	*Logarithmi Sinuū.*	*Log. Tangent.*	*M: S*
33	71116,76730,26464	1 01158,60319	1 42242,97171	9,85197,20070,3793	10,00500,28239	19:48
	12,27113,92735	35,30712	25,10712	7,49436,1893	15,16071	
32	71104,49616,33729	1 01123,29607	1 42217,86459	9,85189,70634,1900	10,00485,12168	19:12
	12,27330,52404	35,29466	25,09393	7,49697,8538	15,16065	
31	71092,22285,81325	1 01088,00141	1 42192,77066	9,85182,20936,3362	10,00469,96103	18:36
	12,27547,08333	35,28221	25,08074	7,49959,6088	15,16060	
30	71079,94738,72992	1 01052,71920	1 42167,68992	9,85174,70976,7274	10,00454,80043	18: 0
	12,27763,60523	35,26977	25,06757	7,50221,4541	15,16054	
29	71067,66975,12469	1 01017,44943	1 42142,62235	9,85167,20755,2733	10,00439,63989	17:24
	12,27980,08973	35,25733	25,05440	7,50483,3900	15,16049	
28	71055,38995,03496	1 00982,19210	1 42117,56795	9,85159,70271,8833	10,00424,47940	16:48
	12,28196,53683	35,24491	25,04124	7,50745,4163	15,16043	
27	71043,10798,49813	1 00946,94719	1 42092,52671	9,85152,19526,4670	10,00409,31897	16:12
	12,28412,94650	35,23249	25,02809	7,51007,5334	15,16039	
26	71030,82385,55163	1 00911,71470	1 42067,49862	9,85144,68518,9336	10,00394,15858	15:36
	12,28629,31878	35,22008	25,01495	7,51269,7409	15,16034	
25	71018,53756,23285	1 00876,49462	1 42042,48367	9,85137,17249,1927	10,00378,99824	15: 0
	12,28845,65360	35,20768	25,00182	7,51532,0393	15,16029	
24	71006,24910,57925	1 00841,28694	1 42017,48185	9,85129,65717,1534	10,00363,83795	14:24
	12,29061,95101	35,19529	24,98869	7,51794,4286	15,16025	
23	70993,95848,62824	1 00806,09165	1 41992,49316	9,85122,13922,7248	10,00348,67770	13:48
	12,29278,21098	35,18291	24,97558	7,52056,9085	15,16020	
22	70981,66570,41726	1 00770,90874	1 41967,51758	9,85114,61865,8163	10,00333,51750	13:12
	12,29494,43349	35,17054	24,96247	7,52319,4795	15,16017	
21	70969,37075,98377	1 00735,73820	1 41942,55511	9,85107,09546,3368	10,00318,35733	12:36
	12,29710,61856	35,15817	24,94937	7,52582,1414	15,16012	
20	70957,07365,36521	1 00700,58003	1 41917,60574	9,85099,56964,1954	10,00303,19721	12: 0
	12,29926,76617	35,14581	24,93628	7,52844,8944	15,16009	
19	70944,77438,59904	1 00665,43422	1 41892,66946	9,85092,04119,3010	10,00288,03712	11:24
	12,30142,87630	35,13347	24,92320	7,53107,7386	15,16005	
18	70932,47295,72274	1 00630,30075	1 41867,74626	9,85084,51011,5624	10,00272,87707	10:48
	12,30358,94898	35,12112	24,91012	7,53370,6738	15,16002	
17	70920,16936,77376	1 00595,17963	1 41842,83614	9,85076,97640,8886	10,00257,71705	10:12
	12,30574,98416	35,10880	24,89706	7,53633,7003	15,15999	
16	70907,86361,78960	1 00560,07083	1 41817,93908	9,85069,44007,1883	10,00242,55706	9:36
	12,30790,98187	35,09648	24,88400	7,53896,8181	15,15996	
15	70895,55570,80773	1 00524,97435	1 41793,05508	9,85061,90110,3702	10,00227,39710	9: 0
	12,31006,94208	35,08416	24,87095	7,54160,0273	15,15993	
14	70883,24563,86565	1 00489,89019	1 41768,18413	9,85054,35950,3429	10,00212,23717	8:24
	12,31222,86479	35,07185	24,85791	7,54423,3279	15,15991	
13	70870,93341,00086	1 00454,81834	1 41743,32622	9,85046,81527,0150	10,00197,07726	7:48
	12,31438,75000	35,05957	24,84488	7,54686,7200	15,15988	
12	70858,61902,25086	1 00419,75877	1 41718,48134	9,85039,26840,2950	10,00181,91738	7:12
	12,31654,59770	35,04727	24,83186	7,54950,2037	15,15986	
11	70846,30247,65316	1 00384,71150	1 41693,64948	9,85031,71890,0913	10,00166,75752	6:36
	12,31870,40787	35,03499	24,81884	7,55213,7790	15,15984	
10	70833,98377,24529	1 00349,67651	1 41668,83064	9,85024,16676,3123	10,00151,59768	6: 0
	12,32086,18053	35,02273	24,80583	7,55477,4459	15,15982	
9	70821,66291,06476	1 00314,65378	1 41644,02481	9,85016,61198,8664	10,00136,43786	5:24
	12,32301,91565	35,01046	24,79284	7,55741,2046	15,15980	
8	70809,33989,14911	1 00279,64332	1 41619,23197	9,85009,05457,6618	10,00121,27806	4:48
	12,32517,61323	34,99821	24,77984	7,56005,0552	15,15979	
7	70797,01471,53588	1 00244,64511	1 41594,45213	9,85001,49452,6066	10,00106,11827	4:12
	12,32733,27328	34,98597	24,76687	7,56268,9975	15,15978	
6	70784,68738,26260	1 00209,65914	1 41569,68526	9,84993,93183,6091	10,00090,95849	3:36
	12,32948,89576	34,97373	24,75389	7,56533,0319	15,15977	
5	70772,35789,36684	1 00174,68541	1 41544,93137	9,84986,36650,5772	10,00075,79872	3: 0
	12,33164,48069	34,96150	24,74092	7,56797,1583	15,15975	
4	70760,02624,88615	1 00139,72391	1 41520,19045	9,84978,79853,4189	10,00060,63897	2:24
	12,33380,02805	34,94929	24,72797	7,57061,3767	15,15975	
3	70747,69244,85810	1 00104,77462	1 41495,46248	9,84971,22792,0422	10,00045,47922	1:48
	12,33595,53786	34,93707	24,71502	7,57325,6872	15,15974	
2	70735,35649,32024	1 00069,83755	1 41470,74746	9,84963,65466,3550	10,00030,31948	1:12
	12,33811,01006	34,92487	24,70208	7,57590,0899	15,15974	
1	70723,01838,31018	1 00034,91268	1 41446,04538	9,84956,07876,2651	10,00015,15974	0:36
	12,34026,44470	34,91268	24,68914	7,57854,5850	15,15974	
0	70710,67811,86548	1 00000,00000	1 41421,35624	9,84948,50021,6801	10,00000,00000	0: 0
	12,34241,84175	34,90049	24,67623	7,58119,1723	15,15974	

GRAD. 45.