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Quam quisque novit artem, in hac se exerceat
Cicero

1 Trigonometric tables before Rheticus

As told by Gerhardt in his history of mathematics in Germany, Peuerbach (1423–1461) and his pupil Regiomontanus (1436–1476) [30, 43, 85] woke up the study of astronomy and built the necessary tables [33, p. 87]. Regiomontanus calculated tables of sines for every minute of arc for radiiuses of 6000000 and 10000000 units.¹

Regiomontanus had also computed a table of tangents [50], but with the smaller radius $R = 10^5$ and at intervals of 1° . There were no printed tables of secants, but an ever growing number of tables copied from those of Regiomontanus or derived from his tables.

2 Rheticus (1514–1574)

Georg Joachim was born in 1514 in Feldkirch (Austria) in what was formerly the Roman province of Raetia, from which the name Rheticus is derived. His father was a doctor.² After studying in Zurich from 1528 to 1532, Rheticus went to Wittenberg to complete his education. Wittenberg was then the center of the sciences. He obtained his doctorate in 1536, went to Nuremberg and Tübingen, then was called back to Wittenberg as professor of mathematics in 1536, along with Erasmus Reinhold. In 1539, he went to Frauenburg in order to assist Copernicus and pushed him to publish the details of his theory.

The first account of the Copernican system was not published by Copernicus, but in Rheticus's *Narratio prima* in 1540 [53, 66, 7, 5, 6, 8, 9, 75]. In fact, Rheticus was more zealous than Copernicus, insisting on the physical truth of the motion of the earth. Rheticus's books were condemned by the catholic church in 1550 and put on the *Index Expurgatorius*, and this condemnation applied to his works on trigonometry. As observed by De Morgan, this severity was not so remarkable, if we remember that Rheticus held the chair of mathematics at Wittenberg, where Luther had taught theology [23, p. 518].

Rheticus resumed his teaching in Wittenberg in 1541 and in 1542, Copernicus's *De lateribus et angulis triangulorum* [17, 73] was published by Rheticus in Wittenberg. This short treatise on trigonometry contains a table of sines for every minute of the quadrant and for a radius of 10^7 . This table was copied from Regiomontanus's decimal table [65].

Copernicus's *De Revolutionibus* (1543), whose printing was partly overseen by Rheticus, contained the same chapter on trigonometry, but with a simpler table [16, book 1, chapter 12, ff. 15–19]. The sines were only given every $10'$ and for a radius of 100000. This table is also derived from Regiomontanus's works [36, pp. 178–179], [65].

In 1542, Rheticus went to Nuremberg and Philip Melanchton [81] then helped him to obtain a position at Leipzig University where he remained from 1542 to 1551. Rheticus

¹For a summary of fundamental trigonometric tables printed in the 15th and 16th centuries, see my survey [65]. The present report was first written in 2011, but it has been updated and corrected in light of this survey.

²For extensive biographies of Rheticus, see Burmeister [13, 14], Kraai [45], Danielson [19], and Schöbifink *et al*'s collections [80, 69].

had to leave Leipzig after being accused of homosexual conduct and went to Prague in 1551. He gave up his academic career and completed his medicine studies. He settled in Cracow in 1554 where he practiced medicine. Cracow was located on the same meridian as Frauenburg and Rheticus had a 15-meter obelisk erected near the city for astronomical purposes which were never completed [14, p. 9], [84]. Rheticus died during a visit in Košice, now in Slovakia, in 1574.

3 Rheticus's first canon (1551)

Rheticus published his first trigonometric canon, the *Canon doctrinæ triangulorum*, in 1551 in Leipzig [54]. This table gave the six trigonometric functions at intervals of $10'$, semi-quadrantally arranged. Each function was given to 7 places, or more exactly as integers for a radius of 10^7 . This is a very rare table, and it was practically unknown when De Morgan happened to find a copy of it in the 1840s [24, 23].

Rheticus was the first to provide a uniform treatment of the six trigonometric functions. He was in particular the first to publish a table of secants.³

Rheticus did not consider angles in circles, but considered triangles of which one of the side was constant, and he gave the lengths of the other sides as a function of the angle at the center. The name of “sine” was not used by Rheticus, nor those of tangent and secant, the latter two having not yet been introduced.⁴ The sides were called “base,” “perpendicular,” and “hypotenuse.” The tables span 14 pages, with 7 degrees on each double page. The last double page is not totally filled, with only the degrees 42 to 44. Each double page is split in three groups of two columns. The first group (hypotenuse = 10^7) gives the sines and cosines, with their differences. The second group (base = 10^7) gives the secants and the tangents. And the third group (perpendicular = 10^7) gives the cosecants and the cotangents.

The heading of the tables means “Canon of the doctrine of triangles in which in a plane triangle with right angle 10^7 parts are taken for 1) the (side) subtending the right angle, 2) the greatest of the two sides including the right angle, and 3) the smallest of the two sides including the right angle” [10, p. 13].

The structure of the table was first described by De Morgan [24, 23]. A similar layout was used in Rheticus and Otho's *Opus palatinum* [55].⁵

Rheticus actually only computed two thirds of his table. The table of sines was taken from Regiomontanus [36, p. 152], but the tangents and secants were recomputed from the sines [36, p. 193]. Rheticus had therefore to compute about 1080 ratios ($90 \times 6 \times 2$).

More precisely, the sines in Rheticus's table were copied from Regiomontanus's table for $R = 10^7$ [68], [36, p. 152]. Most of the values were not changed, but some of the

³In 1819, Delambre, unaware of Rheticus's 1551 table, still wrote that Viète was the first to put together all these functions in 1579 [26, p. 456].

⁴It was Thomas Fincke who in 1583 first used the names “tangent” and “secant” [28, 25]. See also [35, p. 42].

⁵De Morgan considers that the semi-quadrantal arrangement of the tables finds its roots in Rheticus's three cases of triangles. In the first case, the greatest side of the triangle is the cosine, and the smallest side is the sine. The divisions would not have been the same if Rheticus had given the sines for the whole quadrant. Rheticus's arrangement led to consider the duality of sine and cosine, tangent and cotangent, and secant and cosecant [23, pp. 523–524].

typos were corrected, for instance the cosine of $38^\circ 40'$ whose value was still incorrect (as $\text{Sin } 51^\circ 20'$) in Rheticus's 1542 table.

But Rheticus made new computations for the tangents and the secants using these sines. According to Glowatzki and Götsche [36, p. 185], Rheticus merely computed the ratios for the tangents, but things are actually a bit more complicated.

First, it appears that the secants and cosecants were computed by dividing 1 (or rather 10^{14}) by the values of the cosines or sines, and truncating the results. This can readily be observed on the secants of $17^\circ 20'$, 29° , $29^\circ 50'$, 43° , etc., and practically every ratio whose decimal part is greater than 0.5. This is also true for the cosecants, an example being $35^\circ 30'$.

But the tangents and cotangents are another story. I don't know exactly how Rheticus computed these values, but a close examination of Rheticus's values reveals that the tangents are more accurate than the cotangents and consequently one cannot have been computed from the other. They must have been computed differently. The tangents may have been computed by dividing the sines by the cosines, but this cannot have been the case for the cotangents.⁶

It appears that the values of the cotangents are close to those obtained when computing

$$\text{Cot } x = \sqrt{\text{Csc}^2 x - R^2}$$

but they are not totally identical. The agreement is however much better than that obtained by merely dividing the values of the cosines by the sines of Regiomontanus, and it may even be a little better if $\text{Csc}^2 x$ is rounded to seven or eight significant digits. This hypothesis may need to be tested further, but it parallels a suggestion by van Brummelen and Byrne for the computation of secants by Maurolico [77, 46], although I argue in my survey [65] that their suggestion is in fact not applicable to Maurolico's computations. However, in my survey I also suggest that Fincke used a similar procedure to compute his secants in 1583.

The 1551 canon has been reprinted in 1565 in Basel [36, p. 185].⁷

Rheticus's work remains based on Regiomontanus's tables, and although he was the first to construct a table giving all six triangle ratios, he did not compute the cosecants and cotangents sufficiently accurately for small angles, and does not yet seem to have understood that more accurate sines were needed. He has no problem giving cosecants and cotangents to 10 figures, when the sine is only given to 5 figures. This understanding of the need for more accurate sines only came later, and even the *Opus palatinum* [55] published in 1596 is still marred by this problem which will only fully be solved by Pitiscus in the early 17th century [48].

4 Rheticus's heirs and influence

After Rheticus's 1551 table, other authors such as Reinhold in 1554 [52], [36, pp. 152–153], or Fincke in 1583 [28], still continued to give simpler tables based on Regiomontanus's

⁶It will be interesting to see what conclusions came [49] who seems to have conducted a similar investigation, but whose result is not yet published at the time I am writing this.

⁷De Morgan wrote earlier that it had been reprinted in 1580 [23, p. 521].

tables, but some authors were directly influenced by Rheticus. The first of them was François Viète.

4.1 Viète’s *Canon mathematicus* (1579)

Inspired by Rheticus’s table [41], François Viète (1540–1603) constructed a new table, which he called the *Canon mathematicus* [78]. The printing of the table was started in 1571 but it was only completed in 1579 [74, p. 205].

The *Canon mathematicus* contained a typographically sophisticated table of the six trigonometric functions for every minute of the quadrant and with a radius of 100000, with sometimes one or two additional figures (figure 1) [41] [26, pp. 455–456]. This was the first published canon giving the trigonometric functions every minute, but on the other hand it gave them to less places than Rheticus’s first table. Viète took the sines from Regiomontanus, except for some parts which have been recomputed [36, pp. 154–155], [65]. The tangents and secants were recomputed, not from Regiomontanus’s values as suggested by Glowatzki and Götsche [36, pp. 189, 196], but using Viète’s own values, either in his table of sines, or from more accurate values, for instance for $\text{Sin } 1'$ [65].

4.2 Otho’s *Opus palatinum* (1596)

After the publication of the 1551 canon, Rheticus continued to work on a more extensive project, where the six trigonometric functions would be given every $10''$ and for a radius of 10^{10} . This work was only completed after Rheticus’s death by Lucius Valentinus Otho and published in 1596 [55, 57]. It was further corrected by Pitiscus, in particular in his *Thesaurus mathematicus* published in 1613 [48].

5 Structure of the tables and recompilation

In addition to the tables described above, Rheticus’s book contained a cover page, an introductory poem, and six pages of explanations which are not reproduced here. The original tables used two colors, and there are some overlaps between the red and black figures. Viète’s tables also use two colors but their layout is much more successful.

Some values were omitted and I have added them in my reconstruction. The sine, secant, and tangent values for 0° , as well as the first difference of the tangents, were given as “.....” or “.....,” and the value of the last cosecant of the table was merely left blank.

Rheticus’s tables were recomputed using the GNU `mpfr` multiple-precision floating-point library developed at INRIA [32], and give the exact values. The comparison of my table and Rheticus’s will therefore immediately show where Rheticus’s table contains errors.

Acknowledgements

It is my pleasure to acknowledge the help of Michela Malpangotto, who hinted to an earlier shortcoming in this study.

| CANON MATHEMATICVS, | | | | | | | | | |
|---|--|---|-----------------------|---|------------------|------------|---|------------|---|
| TRIANGULI PLANI RECTANGULI | | | | | | | | | |
| Circum-commo- | Quadrans secundus ac partitur per rectas, Hypotenuse congrua. | PERIPERIMETRIA Hypotenuse congrua. | Hypotenusa 100,000 | | Basis 100,000 | | Perpendiculum Hypotenusa E CANONE FÆCVNDO | | lo ad- dati RESIDUA Basis congrua |
| | | | Perpendiculum | Basis | Perpendiculum | Hypotenusa | Perpendiculum | Hypotenusa | |
| PART. | | | E CANONE SI- num | | E CANONE FÆCVNDO | | E CANONE FÆCVNDO | | |
| III. | | | PRIMA | | SECUNDA | | TERTIA | | |
| S.C.R.V.P. | | | | | SERIE | | | | |
| | | | | | SECUNDA | | | | |
| * | 6.976 | 99.756 40 | 6.993 | 100.244 20 | I. 430.067 | I. 433.559 | LX | | |
| I | 7.005 | 99.754 37 | 7.022 | 100.246 25 | I. 447.114 | I. 447.620 | LIX | | |
| II | 7.034 | 99.752 33 | 7.051 | 100.248 30 | I. 448.209 | I. 448.730 | LVIII | | |
| III | 7.063 | 99.750 28 | 7.080 | 100.250 36 | I. 442.353 | I. 445.888 | LVII | | |
| IV | 7.092 | 99.748 22 | 7.110 | 100.252 42 | I. 446.546 | I. 449.096 | LVI | | |
| V | 7.121 | 99.746 15 | 7.139 | 100.254 50 | I. 440.786 | I. 444.350 | LV | | |
| VI | 7.150 | 99.744 1 * | 7.168 | 100.256 6 * | I. 395.072 | I. 398.651 | LIII | | |
| VII | 7.179 | 99.742 0 | 7.197 | 100.258 7 | I. 389.404 | I. 392.998 | LIII | | |
| VIII | 7.208 | 99.740 0 | 7.227 | 100.267 8 | I. 383.783 | I. 387.391 | LII | | |
| IX | 7.237 | 99.737 8 | 7.256 | 100.262 9 | I. 378.207 | I. 381.830 | LI | | |
| X | 7.266 | 99.735 7 | 7.285 | 100.265 0 | I. 371.674 | I. 376.310 | L | | |
| XI | 7.295 | 99.733 6 | 7.314 | 100.260 1 | I. 367.186 | I. 370.838 | XLIX | | |
| XII | 7.324 | 99.731 5 | 7.344 | 100.269 3 | I. 361.741 | I. 365.408 | XLVIII | | |
| XIII | 7.353 | 99.729 3 | 7.373 | 100.271 4 | I. 356.339 | I. 360.020 | XLVII | | |
| XIV | 7.382 | 99.727 2 | 7.402 | 100.273 6 | I. 350.980 | I. 354.676 | XLVI | | |
| XV | 7.411 | 99.725 0 | 7.431 | 100.275 7 | I. 345.663 | I. 349.373 | XLV | | |
| XVI | 7.440 | 99.722 9 | 7.461 | 100.277 9 | I. 340.387 | I. 344.112 | XLIII | | |
| XVII | 7.469 | 99.720 7 | 7.490 | 100.280 1 | I. 335.152 | I. 338.891 | XLII | | |
| XVIII | 7.498 | 99.718 5 | 7.519 | 100.283 3 | I. 329.958 | I. 333.712 | XLI | | |
| XIX | 7.527 | 99.716 3 | 7.548 | 100.284 5 | I. 324.804 | I. 328.572 | XL | | |
| XX | 7.556 | 99.714 1 | 7.578 | 100.286 7 | I. 319.789 | I. 323.472 | XXXIX | | |
| XXI | 7.585 | 99.711 9 | 7.607 | 100.288 9 | I. 314.613 | I. 318.410 | XXXVIII | | |
| XXII | 7.614 | 99.709 7 | 7.636 | 100.291 1 | I. 309.576 | I. 313.388 | XXXVII | | |
| XXIII | 7.643 | 99.707 5 | 7.665 | 100.293 3 | I. 304.575 | I. 308.402 | XXXVI | | |
| XXIV | 7.672 | 99.705 3 | 7.695 | 100.295 6 | I. 299.616 | I. 303.458 | XXXV | | |
| XXV | 7.701 | 99.703 1 | 7.724 | 100.297 8 | I. 294.692 | I. 298.548 | XXXIII | | |
| XXVI | 7.730 | 99.700 8 | 7.753 | 100.300 1 | I. 289.805 | I. 293.676 | XXXIII | | |
| XXVII | 7.759 | 99.698 5 | 7.782 | 100.302 4 | I. 284.955 | I. 288.840 | XXXII | | |
| XXVIII | 7.788 | 99.696 3 | 7.812 | 100.304 6 | I. 280.142 | I. 284.042 | XXXI | | |
| XXIX | 7.817 | 99.694 0 | 7.841 | 100.306 9 | I. 275.364 | I. 279.278 | XXX | | |
| XXX | 7.846 | 99.691 7 | 7.870 | 100.309 1 | I. 270.621 | I. 274.550 | XXX | | |
| LXXXV. | | | | | | | | | |
| PRIMA | | SECUNDA | | TERTIA | | S.C.R.V.P. | | | |
| SERIE | | SERIE | | SERIE | | S.C.R.V.P. | | | |
| E CANONE SI- num | | E CANONE FÆCVNDO | | E CANONE FÆCVNDO | | S.C.R.V.P. | | | |
| Basis 100,000 | | Basis 100,000 | | Perpendiculum Hypotenusa 100,000 | | S.C.R.V.P. | | | |
| Perpendiculum Hypotenusa | | Perpendiculum | | Basis | | S.C.R.V.P. | | | |
| Hypotenusa | | Hypotenusa | | Hypotenusa Basis | | S.C.R.V.P. | | | |
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Figure 1: A page from Viète's *Canon mathematicus* (1579). This page gives (from left to right) the sines, cosines, tangents, secants, cotangents, and cosecants for angles from 4° to $4^\circ 30'$ and from $85^\circ 30'$ to 86° . (source: <http://www.christies.com>, book auctioned on June 17, 2008 in New York)

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The following list covers the most important references⁸ related to Rheticus's tables. Not all items of this list are mentioned in the text, and the sources which have not been seen are marked so. I have added notes about the contents of the articles in certain cases.

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⁸**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 I have not done it here.

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Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CANON DOCTRINÆ TRIANGVLORVM IN QVO TRIQVETRI

| | | Subtendens | angulum | rectum | | Maius latus includen- | |
|---|----|-------------|-----------|--------------|-----------|-----------------------|-----------|
| | | Perpendicu: | Differen: | Basis | Differen: | Hypotenusā | Differen: |
| 0 | 0 | 0 | 29089 | 10000000 | 42 | 10000000 | 42 |
| | 10 | 29089 | 29088 | 9999958 | 127 | 10000042 | 127 |
| | 20 | 58177 | 29088 | 9999831 | 212 | 10000169 | 212 |
| | 30 | 87265 | 29088 | 9999619 | 296 | 10000381 | 296 |
| | 40 | 116353 | 29086 | 9999323 | 381 | 10000677 | 381 |
| | 50 | 145439 | 29085 | 9998942 | 465 | 10001058 | 465 |
| 1 | 0 | 174524 | 29084 | 9998477 | 550 | 10001523 | 550 |
| | 10 | 203608 | 29082 | 9997927 | 635 | 10002073 | 635 |
| | 20 | 232690 | 29079 | 9997292 | 719 | 10002708 | 720 |
| | 30 | 261769 | 29078 | 9996573 | 803 | 10003428 | 804 |
| | 40 | 290847 | 29075 | 9995770 | 889 | 10004232 | 889 |
| | 50 | 319922 | 29073 | 9994881 | 973 | 10005121 | 974 |
| 2 | 0 | 348995 | 29070 | 9993908 | 1057 | 10006095 | 1059 |
| | 10 | 378065 | 29066 | 9992851 | 1142 | 10007154 | 1144 |
| | 20 | 407131 | 29063 | 9991709 | 1227 | 10008298 | 1229 |
| | 30 | 436194 | 29059 | 9990482 | 1311 | 10009527 | 1314 |
| | 40 | 465253 | 29055 | 9989171 | 1396 | 10010841 | 1398 |
| | 50 | 494308 | 29052 | 9987775 | 1480 | 10012239 | 1484 |
| 3 | 0 | 523360 | 29046 | 9986295 | 1564 | 10013723 | 1570 |
| | 10 | 552406 | 29042 | 9984731 | 1649 | 10015293 | 1654 |
| | 20 | 581448 | 29037 | 9983082 | 1734 | 10016947 | 1740 |
| | 30 | 610485 | 29032 | 9981348 | 1818 | 10018687 | 1825 |
| | 40 | 639517 | 29027 | 9979530 | 1903 | 10020512 | 1911 |
| | 50 | 668544 | 29021 | 9977627 | 1986 | 10022423 | 1996 |
| 4 | 0 | 697565 | 29015 | 9975641 | 2072 | 10024419 | 2082 |
| | 10 | 726580 | 29009 | 9973569 | 2156 | 10026501 | 2168 |
| | 20 | 755589 | 29002 | 9971413 | 2240 | 10028669 | 2253 |
| | 30 | 784591 | 28996 | 9969173 | 2324 | 10030922 | 2339 |
| | 40 | 813587 | 28989 | 9966849 | 2409 | 10033261 | 2426 |
| | 50 | 842576 | 28981 | 9964440 | 2493 | 10035687 | 2511 |
| 5 | 0 | 871557 | 28975 | 9961947 | 2577 | 10038198 | 2598 |
| | 10 | 900532 | 28967 | 9959370 | 2662 | 10040796 | 2684 |
| | 20 | 929499 | 28959 | 9956708 | 2746 | 10043480 | 2771 |
| | 30 | 958458 | 28950 | 9953962 | 2830 | 10046251 | 2857 |
| | 40 | 987408 | 28943 | 9951132 | 2915 | 10049108 | 2944 |
| | 50 | 1016351 | 28934 | 9948217 | 2998 | 10052052 | 3031 |
| 6 | 0 | 1045285 | 28925 | 9945219 | 3083 | 10055083 | 3117 |
| | 10 | 1074210 | 28916 | 9942136 | 3167 | 10058200 | 3205 |
| | 20 | 1103126 | 28906 | 9938969 | 3250 | 10061405 | 3292 |
| | 30 | 1132032 | 28897 | 9935719 | 3335 | 10064697 | 3380 |
| | 40 | 1160929 | 28887 | 9932384 | 3419 | 10068077 | 3467 |
| | 50 | 1189816 | 28877 | 9928965 | 3503 | 10071544 | 3554 |
| | | Basis: | Differen: | Perpendiculū | Differen: | Hypotenusā | Differen: |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CVM ANGVLO RECTO IN PLANITIE PARTIVM 10000000 PONITVR

| tiū angulū rect: | | Minus | latus includentium | angulum rectum. | | | |
|------------------|-----------|------------|--------------------|-----------------|------------|----|----|
| Perpend: | Differen: | Hypotenusa | Differen: | Basis. | Differen: | | |
| 0 | 29089 | Infinitum | Infinitum | Infinitum | Infinitum | 0 | 90 |
| 29089 | 29089 | 3437751619 | 1718868537 | 3437737075 | 1718883082 | 50 | |
| 58178 | 29091 | 1718883082 | 572952947 | 1718853993 | 572967492 | 40 | |
| 87269 | 29092 | 1145930135 | 286474049 | 1145886501 | 286488594 | 30 | |
| 116361 | 29093 | 859456086 | 171882491 | 859397907 | 171897035 | 20 | |
| 145454 | 29097 | 687573595 | 114586710 | 687500872 | 114601256 | 10 | |
| 174551 | 29099 | 572986885 | 81846265 | 572899616 | 81860810 | 0 | 89 |
| 203650 | 29103 | 491140620 | 61383486 | 491038806 | 61398033 | 50 | |
| 232753 | 29106 | 429757134 | 47741634 | 429640773 | 47756180 | 40 | |
| 261859 | 29111 | 382015500 | 38192337 | 381884593 | 38206884 | 30 | |
| 290970 | 29116 | 343823163 | 31247393 | 343677709 | 31261942 | 20 | |
| 320086 | 29122 | 312575770 | 26038687 | 312415767 | 26053234 | 10 | |
| 349208 | 29127 | 286537083 | 22031987 | 286362533 | 22046537 | 0 | 88 |
| 378335 | 29134 | 264505096 | 18883868 | 264315996 | 18898418 | 50 | |
| 407469 | 29140 | 245621228 | 16365372 | 245417578 | 16379923 | 40 | |
| 436609 | 29148 | 229255856 | 14319093 | 229037655 | 14333645 | 30 | |
| 465757 | 29156 | 214936763 | 12633923 | 214704010 | 12648475 | 20 | |
| 494913 | 29165 | 202302840 | 11229614 | 202055535 | 11244168 | 10 | |
| 524078 | 29173 | 191073226 | 10047038 | 190811367 | 10061593 | 0 | 87 |
| 553251 | 29183 | 181026188 | 9041848 | 180749774 | 9056405 | 50 | |
| 582434 | 29192 | 171984340 | 8180258 | 171693369 | 8194814 | 40 | |
| 611626 | 29203 | 163804082 | 7436155 | 163498555 | 7450714 | 30 | |
| 640829 | 29214 | 156367927 | 6789111 | 156047841 | 6803671 | 20 | |
| 670043 | 29225 | 149578816 | 6222946 | 149244170 | 6237507 | 10 | |
| 699268 | 29237 | 143355870 | 5724721 | 143006663 | 5739285 | 0 | 86 |
| 728505 | 29250 | 137631149 | 5283984 | 137267378 | 5298548 | 50 | |
| 757755 | 29262 | 132347165 | 4892217 | 131968830 | 4906783 | 40 | |
| 787017 | 29276 | 127454948 | 4542425 | 127062047 | 4556992 | 30 | |
| 816293 | 29290 | 122912523 | 4228818 | 122505055 | 4243388 | 20 | |
| 845583 | 29304 | 118683705 | 3946573 | 118261667 | 3961144 | 10 | |
| 874887 | 29319 | 114737132 | 3691640 | 114300523 | 3706213 | 0 | 85 |
| 904206 | 29334 | 111045492 | 3460608 | 110594310 | 3475184 | 50 | |
| 933540 | 29350 | 107584884 | 3250579 | 107119126 | 3265155 | 40 | |
| 962890 | 29367 | 104334305 | 3059081 | 103853971 | 3073660 | 30 | |
| 992257 | 29384 | 101275224 | 2883997 | 100780311 | 2898579 | 20 | |
| 1021641 | 29401 | 98391227 | 2723505 | 97881732 | 2738087 | 10 | |
| 1051042 | 29420 | 95667722 | 2576023 | 95143645 | 2590610 | 0 | 84 |
| 1080462 | 29437 | 93091699 | 2440187 | 92553035 | 2454774 | 50 | |
| 1109899 | 29457 | 90651512 | 2314797 | 90098261 | 2329387 | 40 | |
| 1139356 | 29476 | 88336715 | 2198814 | 87768874 | 2213406 | 30 | |
| 1168832 | 29497 | 86137901 | 2091315 | 85555468 | 2105910 | 20 | |
| 1198329 | 29517 | 84046586 | 1991496 | 83449558 | 2006094 | 10 | |
| Basis. | Differen: | Hypotenusa | Differen: | Perpendicu: | Differen: | | |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CANON DOCTRINÆ TRIANGVLORVM IN QVO TRIQVETRI

| | | Subtendens | angulum | rectum | Maius latus includen- | | |
|----|----|-------------|-----------|--------------|-----------------------|------------|-----------|
| | | Perpendicu: | Differen: | Basis | Differen: | Hypotenusu | Differen: |
| 7 | 0 | 1218693 | 28867 | 9925462 | 3588 | 10075098 | 3643 |
| | 10 | 1247560 | 28856 | 9921874 | 3670 | 10078741 | 3730 |
| | 20 | 1276416 | 28846 | 9918204 | 3755 | 10082471 | 3819 |
| | 30 | 1305262 | 28834 | 9914449 | 3839 | 10086290 | 3906 |
| | 40 | 1334096 | 28823 | 9910610 | 3923 | 10090196 | 3996 |
| | 50 | 1362919 | 28812 | 9906687 | 4006 | 10094192 | 4084 |
| 8 | 0 | 1391731 | 28800 | 9902681 | 4091 | 10098276 | 4173 |
| | 10 | 1420531 | 28788 | 9898590 | 4174 | 10102449 | 4261 |
| | 20 | 1449319 | 28775 | 9894416 | 4257 | 10106710 | 4351 |
| | 30 | 1478094 | 28763 | 9890159 | 4342 | 10111061 | 4441 |
| | 40 | 1506857 | 28750 | 9885817 | 4425 | 10115502 | 4530 |
| | 50 | 1535607 | 28738 | 9881392 | 4509 | 10120032 | 4619 |
| 9 | 0 | 1564345 | 28724 | 9876883 | 4592 | 10124651 | 4710 |
| | 10 | 1593069 | 28710 | 9872291 | 4676 | 10129361 | 4800 |
| | 20 | 1621779 | 28697 | 9867615 | 4759 | 10134161 | 4890 |
| | 30 | 1650476 | 28683 | 9862856 | 4843 | 10139051 | 4981 |
| | 40 | 1679159 | 28669 | 9858013 | 4926 | 10144032 | 5071 |
| | 50 | 1707828 | 28654 | 9853087 | 5009 | 10149103 | 5163 |
| 10 | 0 | 1736482 | 28639 | 9848078 | 5093 | 10154266 | 5254 |
| | 10 | 1765121 | 28625 | 9842985 | 5177 | 10159520 | 5345 |
| | 20 | 1793746 | 28609 | 9837808 | 5259 | 10164865 | 5438 |
| | 30 | 1822355 | 28594 | 9832549 | 5343 | 10170303 | 5529 |
| | 40 | 1850949 | 28579 | 9827206 | 5425 | 10175832 | 5621 |
| | 50 | 1879528 | 28562 | 9821781 | 5509 | 10181453 | 5714 |
| 11 | 0 | 1908090 | 28546 | 9816272 | 5592 | 10187167 | 5806 |
| | 10 | 1936636 | 28530 | 9810680 | 5675 | 10192973 | 5900 |
| | 20 | 1965166 | 28513 | 9805005 | 5758 | 10198873 | 5993 |
| | 30 | 1993679 | 28497 | 9799247 | 5841 | 10204866 | 6086 |
| | 40 | 2022176 | 28479 | 9793406 | 5923 | 10210952 | 6180 |
| | 50 | 2050655 | 28462 | 9787483 | 6007 | 10217132 | 6274 |
| 12 | 0 | 2079117 | 28444 | 9781476 | 6089 | 10223406 | 6368 |
| | 10 | 2107561 | 28427 | 9775387 | 6172 | 10229774 | 6463 |
| | 20 | 2135988 | 28408 | 9769215 | 6255 | 10236237 | 6558 |
| | 30 | 2164396 | 28390 | 9762960 | 6337 | 10242795 | 6653 |
| | 40 | 2192786 | 28372 | 9756623 | 6420 | 10249448 | 6749 |
| | 50 | 2221158 | 28353 | 9750203 | 6502 | 10256197 | 6844 |
| 13 | 0 | 2249511 | 28333 | 9743701 | 6585 | 10263041 | 6941 |
| | 10 | 2277844 | 28315 | 9737116 | 6667 | 10269982 | 7036 |
| | 20 | 2306159 | 28295 | 9730449 | 6750 | 10277018 | 7134 |
| | 30 | 2334454 | 28275 | 9723699 | 6832 | 10284152 | 7231 |
| | 40 | 2362729 | 28255 | 9716867 | 6914 | 10291383 | 7328 |
| | 50 | 2390984 | 28235 | 9709953 | 6996 | 10298711 | 7425 |
| | | Basis: | Differen: | Perpendiculū | Differen: | Hypotenusu | Differen: |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CVM ANGVLO RECTO IN PLANITIE PARTIVM 10000000 PONITVR

| tiū angulū rect: | | Minus | latus includentium | angulum rectum. | | | |
|------------------|-----------|------------|--------------------|-----------------|-----------|----|----|
| Perpend: | Differen: | Hypotenusa | Differen: | Basis. | Differen: | | |
| 1227846 | 29538 | 82055090 | 1898640 | 81443464 | 1913240 | 0 | 83 |
| 1257384 | 29559 | 80156450 | 1812115 | 79530224 | 1826718 | 50 | |
| 1286943 | 29582 | 78344335 | 1731359 | 77703506 | 1745965 | 40 | |
| 1316525 | 29604 | 76612976 | 1655870 | 75957541 | 1670477 | 30 | |
| 1346129 | 29628 | 74957106 | 1585197 | 74287064 | 1599809 | 20 | |
| 1375757 | 29651 | 73371909 | 1518944 | 72687255 | 1533558 | 10 | |
| 1405408 | 29676 | 71852965 | 1456745 | 71153697 | 1471362 | 0 | 82 |
| 1435084 | 29700 | 70396220 | 1398278 | 69682335 | 1412898 | 50 | |
| 1464784 | 29726 | 68997942 | 1343251 | 68269437 | 1357875 | 40 | |
| 1494510 | 29752 | 67654691 | 1291398 | 66911562 | 1306024 | 30 | |
| 1524262 | 29778 | 66363293 | 1242481 | 65605538 | 1257110 | 20 | |
| 1554040 | 29804 | 65120812 | 1196280 | 64348428 | 1210913 | 10 | |
| 1583844 | 29833 | 63924532 | 1152599 | 63137515 | 1167236 | 0 | 81 |
| 1613677 | 29860 | 62771933 | 1111259 | 61970279 | 1125898 | 50 | |
| 1643537 | 29889 | 61660674 | 1072094 | 60844381 | 1086737 | 40 | |
| 1673426 | 29918 | 60588580 | 1034955 | 59757644 | 1049602 | 30 | |
| 1703344 | 29948 | 59553625 | 999704 | 58708042 | 1014354 | 20 | |
| 1733292 | 29978 | 58553921 | 966216 | 57693688 | 980870 | 10 | |
| 1763270 | 30009 | 57587705 | 934374 | 56712818 | 949032 | 0 | 80 |
| 1793279 | 30040 | 56653331 | 904073 | 55763786 | 918734 | 50 | |
| 1823319 | 30071 | 55749258 | 875215 | 54845052 | 889880 | 40 | |
| 1853390 | 30105 | 54874043 | 847710 | 53955172 | 862379 | 30 | |
| 1883495 | 30137 | 54026333 | 821473 | 53092793 | 836146 | 20 | |
| 1913632 | 30171 | 53204860 | 796429 | 52256647 | 811107 | 10 | |
| 1943803 | 30205 | 52408431 | 772507 | 51445540 | 787188 | 0 | 79 |
| 1974008 | 30240 | 51635924 | 749640 | 50658352 | 764325 | 50 | |
| 2004248 | 30275 | 50886284 | 727767 | 49894027 | 742457 | 40 | |
| 2034523 | 30311 | 50158517 | 706830 | 49151570 | 721525 | 30 | |
| 2064834 | 30347 | 49451687 | 686780 | 48430045 | 701477 | 20 | |
| 2095181 | 30385 | 48764907 | 667564 | 47728568 | 682267 | 10 | |
| 2125566 | 30422 | 48097343 | 649137 | 47046301 | 663844 | 0 | 78 |
| 2155988 | 30460 | 47448206 | 631458 | 46382457 | 646170 | 50 | |
| 2186448 | 30499 | 46816748 | 614485 | 45736287 | 629202 | 40 | |
| 2216947 | 30538 | 46202263 | 598183 | 45107085 | 612904 | 30 | |
| 2247485 | 30578 | 45604080 | 582515 | 44494181 | 597241 | 20 | |
| 2278063 | 30619 | 45021565 | 567450 | 43896940 | 582181 | 10 | |
| 2308682 | 30660 | 44454115 | 552957 | 43314759 | 567693 | 0 | 77 |
| 2339342 | 30702 | 43901158 | 539008 | 42747066 | 553748 | 50 | |
| 2370044 | 30744 | 43362150 | 525574 | 42193318 | 540320 | 40 | |
| 2400788 | 30787 | 42836576 | 512633 | 41652998 | 527384 | 30 | |
| 2431575 | 30830 | 42323943 | 500158 | 41125614 | 514914 | 20 | |
| 2462405 | 30875 | 41823785 | 488130 | 40610700 | 502891 | 10 | |
| Basis. | Differen: | Hypotenusa | Differen: | Perpendicu: | Differen: | | |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CANON DOCTRINÆ TRIANGVLORVM IN QVO TRIQVETRI

| | | Subtendens | angulum | rectum | Maius latus includen- | | |
|----|----|-------------|-----------|--------------|-----------------------|------------|-----------|
| | | Perpendicu: | Differen: | Basis | Differen: | Hypotenusu | Differen: |
| 14 | 0 | 2419219 | 28214 | 9702957 | 7078 | 10306136 | 7524 |
| | 10 | 2447433 | 28194 | 9695879 | 7160 | 10313660 | 7622 |
| | 20 | 2475627 | 28173 | 9688719 | 7243 | 10321282 | 7721 |
| | 30 | 2503800 | 28152 | 9681476 | 7324 | 10329003 | 7820 |
| | 40 | 2531952 | 28130 | 9674152 | 7406 | 10336823 | 7920 |
| | 50 | 2560082 | 28108 | 9666746 | 7488 | 10344743 | 8019 |
| | 0 | 2588190 | 28087 | 9659258 | 7569 | 10352762 | 8119 |
| | 10 | 2616277 | 28065 | 9651689 | 7652 | 10360881 | 8220 |
| | 20 | 2644342 | 28042 | 9644037 | 7732 | 10369101 | 8321 |
| 15 | 30 | 2672384 | 28019 | 9636305 | 7815 | 10377422 | 8422 |
| | 40 | 2700403 | 27997 | 9628490 | 7896 | 10385844 | 8524 |
| | 50 | 2728400 | 27974 | 9620594 | 7977 | 10394368 | 8626 |
| | 0 | 2756374 | 27950 | 9612617 | 8059 | 10402994 | 8729 |
| | 10 | 2784324 | 27927 | 9604558 | 8140 | 10411723 | 8831 |
| | 20 | 2812251 | 27902 | 9596418 | 8221 | 10420554 | 8935 |
| 16 | 30 | 2840153 | 27879 | 9588197 | 8302 | 10429489 | 9039 |
| | 40 | 2868032 | 27855 | 9579895 | 8383 | 10438528 | 9142 |
| | 50 | 2895887 | 27830 | 9571512 | 8464 | 10447670 | 9248 |
| | 0 | 2923717 | 27805 | 9563048 | 8546 | 10456918 | 9352 |
| | 10 | 2951522 | 27781 | 9554502 | 8626 | 10466270 | 9458 |
| | 20 | 2979303 | 27755 | 9545876 | 8706 | 10475728 | 9563 |
| 17 | 30 | 3007058 | 27730 | 9537170 | 8788 | 10485291 | 9670 |
| | 40 | 3034788 | 27704 | 9528382 | 8868 | 10494961 | 9777 |
| | 50 | 3062492 | 27678 | 9519514 | 8949 | 10504738 | 9884 |
| | 0 | 3090170 | 27652 | 9510565 | 9029 | 10514622 | 9992 |
| | 10 | 3117822 | 27626 | 9501536 | 9110 | 10524614 | 10100 |
| | 20 | 3145448 | 27599 | 9492426 | 9189 | 10534714 | 10209 |
| 18 | 30 | 3173047 | 27572 | 9483237 | 9271 | 10544923 | 10318 |
| | 40 | 3200619 | 27545 | 9473966 | 9350 | 10555241 | 10428 |
| | 50 | 3228164 | 27518 | 9464616 | 9430 | 10565669 | 10538 |
| | 0 | 3255682 | 27490 | 9455186 | 9511 | 10576207 | 10648 |
| | 10 | 3283172 | 27462 | 9445675 | 9590 | 10586855 | 10760 |
| | 20 | 3310634 | 27435 | 9436085 | 9670 | 10597615 | 10872 |
| 19 | 30 | 3338069 | 27406 | 9426415 | 9750 | 10608487 | 10984 |
| | 40 | 3365475 | 27377 | 9416665 | 9830 | 10619471 | 11097 |
| | 50 | 3392852 | 27349 | 9406835 | 9909 | 10630568 | 11210 |
| | 0 | 3420201 | 27320 | 9396926 | 9988 | 10641778 | 11324 |
| | 10 | 3447521 | 27291 | 9386938 | 10069 | 10653102 | 11438 |
| | 20 | 3474812 | 27262 | 9376869 | 10147 | 10664540 | 11554 |
| 20 | 30 | 3502074 | 27232 | 9366722 | 10227 | 10676094 | 11669 |
| | 40 | 3529306 | 27202 | 9356495 | 10306 | 10687763 | 11785 |
| | 50 | 3556508 | 27171 | 9346189 | 10385 | 10699548 | 11902 |
| | | Basis: | Differen: | Perpendiculū | Differen: | Hypotenusu | Differen: |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CVM ANGVLO RECTO IN PLANITIE PARTIVM 10000000 PONITVR

| tiū angulū rect: | | Minus | latus includentium | angulum rectum. | | | |
|------------------|-----------|------------|--------------------|-----------------|-----------|----|----|
| Perpend: | Differen: | Hypotenusa | Differen: | Basis. | Differen: | | |
| 2493280 | 30920 | 41335655 | 476525 | 40107809 | 491291 | 0 | 76 |
| 2524200 | 30965 | 40859130 | 465326 | 39616518 | 480098 | 50 | |
| 2555165 | 31011 | 40393804 | 454512 | 39136420 | 469289 | 40 | |
| 2586176 | 31058 | 39939292 | 444068 | 38667131 | 458850 | 30 | 75 |
| 2617234 | 31105 | 39495224 | 433974 | 38208281 | 448762 | 20 | |
| 2648339 | 31153 | 39061250 | 424217 | 37759519 | 439011 | 10 | |
| 2679492 | 31202 | 38637033 | 414782 | 37320508 | 429581 | 0 | 75 |
| 2710694 | 31251 | 38222251 | 405655 | 36890927 | 420460 | 50 | |
| 2741945 | 31300 | 37816596 | 396821 | 36470467 | 411632 | 40 | |
| 2773245 | 31352 | 37419775 | 388269 | 36058835 | 403086 | 30 | 74 |
| 2804597 | 31402 | 37031506 | 379988 | 35655749 | 394811 | 20 | |
| 2835999 | 31455 | 36651518 | 371965 | 35260938 | 386794 | 10 | |
| 2867454 | 31507 | 36279553 | 364190 | 34874144 | 379024 | 0 | 74 |
| 2898961 | 31560 | 35915363 | 356653 | 34495120 | 371494 | 50 | |
| 2930521 | 31614 | 35558710 | 349345 | 34123626 | 364192 | 40 | |
| 2962135 | 31668 | 35209365 | 342255 | 33759434 | 357108 | 30 | 73 |
| 2993803 | 31724 | 34867110 | 335375 | 33402326 | 350235 | 20 | |
| 3025527 | 31780 | 34531735 | 328699 | 33052091 | 343565 | 10 | |
| 3057307 | 31836 | 34203036 | 322216 | 32708526 | 337088 | 0 | 73 |
| 3089143 | 31893 | 33880820 | 315920 | 32371438 | 330800 | 50 | |
| 3121036 | 31952 | 33564900 | 309805 | 32040638 | 324690 | 40 | |
| 3152988 | 32010 | 33255095 | 303861 | 31715948 | 318754 | 30 | 72 |
| 3184998 | 32069 | 32951234 | 298085 | 31397194 | 312984 | 20 | |
| 3217067 | 32130 | 32653149 | 292469 | 31084210 | 307375 | 10 | |
| 3249197 | 32190 | 32360680 | 287007 | 30776835 | 301920 | 0 | 72 |
| 3281387 | 32252 | 32073673 | 281695 | 30474915 | 296614 | 50 | |
| 3313639 | 32314 | 31791978 | 276525 | 30178301 | 291451 | 40 | |
| 3345953 | 32377 | 31515453 | 271494 | 29886850 | 286428 | 30 | 71 |
| 3378330 | 32441 | 31243959 | 266596 | 29600422 | 281537 | 20 | |
| 3410771 | 32505 | 30977363 | 261828 | 29318885 | 276776 | 10 | |
| 3443276 | 32570 | 30715535 | 257183 | 29042109 | 272139 | 0 | 71 |
| 3475846 | 32637 | 30458352 | 252659 | 28769970 | 267621 | 50 | |
| 3508483 | 32703 | 30205693 | 248250 | 28502349 | 263220 | 40 | |
| 3541186 | 32770 | 29957443 | 243953 | 28239129 | 258931 | 30 | 70 |
| 3573956 | 32839 | 29713490 | 239765 | 27980198 | 254750 | 20 | |
| 3606795 | 32907 | 29473725 | 235681 | 27725448 | 250674 | 10 | |
| 3639702 | 32978 | 29238044 | 231698 | 27474774 | 246698 | 0 | 70 |
| 3672680 | 33048 | 29006346 | 227814 | 27228076 | 242822 | 50 | |
| 3705728 | 33119 | 28778532 | 224022 | 26985254 | 239039 | 40 | |
| 3738847 | 33191 | 28554510 | 220325 | 26746215 | 235348 | 30 | 70 |
| 3772038 | 33264 | 28334185 | 216714 | 26510867 | 231746 | 20 | |
| 3805302 | 33338 | 28117471 | 213190 | 26279121 | 228230 | 10 | |
| Basis. | Differen: | Hypotenusa | Differen: | Perpendicu: | Differen: | | |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CANON DOCTRINÆ TRIANGVLORVM IN QVO TRIQVETRI

| | | Subtendens | angulum | rectum | Maius latus includen- | | |
|----|----|-------------|-----------|--------------|-----------------------|------------|-----------|
| | | Perpendicu: | Differen: | Basis | Differen: | Hypotenusu | Differen: |
| 21 | 0 | 3583679 | 27142 | 9335804 | 10464 | 10711450 | 12019 |
| | 10 | 3610821 | 27111 | 9325340 | 10543 | 10723469 | 12138 |
| | 20 | 3637932 | 27080 | 9314797 | 10621 | 10735607 | 12255 |
| | 30 | 3665012 | 27049 | 9304176 | 10701 | 10747862 | 12375 |
| | 40 | 3692061 | 27018 | 9293475 | 10779 | 10760237 | 12495 |
| | 50 | 3719079 | 26987 | 9282696 | 10857 | 10772732 | 12615 |
| 22 | 0 | 3746066 | 26955 | 9271839 | 10937 | 10785347 | 12737 |
| | 10 | 3773021 | 26923 | 9260902 | 11014 | 10798084 | 12858 |
| | 20 | 3799944 | 26890 | 9249888 | 11093 | 10810942 | 12980 |
| | 30 | 3826834 | 26859 | 9238795 | 11171 | 10823922 | 13103 |
| | 40 | 3853693 | 26825 | 9227624 | 11249 | 10837025 | 13227 |
| | 50 | 3880518 | 26793 | 9216375 | 11326 | 10850252 | 13352 |
| 23 | 0 | 3907311 | 26760 | 9205049 | 11405 | 10863604 | 13476 |
| | 10 | 3934071 | 26727 | 9193644 | 11483 | 10877080 | 13602 |
| | 20 | 3960798 | 26693 | 9182161 | 11560 | 10890682 | 13729 |
| | 30 | 3987491 | 26659 | 9170601 | 11638 | 10904411 | 13856 |
| | 40 | 4014150 | 26625 | 9158963 | 11716 | 10918267 | 13984 |
| | 50 | 4040775 | 26591 | 9147247 | 11792 | 10932251 | 14112 |
| 24 | 0 | 4067366 | 26557 | 9135455 | 11871 | 10946363 | 14241 |
| | 10 | 4093923 | 26522 | 9123584 | 11947 | 10960604 | 14372 |
| | 20 | 4120445 | 26487 | 9111637 | 12024 | 10974976 | 14503 |
| | 30 | 4146932 | 26453 | 9099613 | 12102 | 10989479 | 14634 |
| | 40 | 4173385 | 26416 | 9087511 | 12178 | 11004113 | 14766 |
| | 50 | 4199801 | 26382 | 9075333 | 12255 | 11018879 | 14900 |
| 25 | 0 | 4226183 | 26345 | 9063078 | 12332 | 11033779 | 15034 |
| | 10 | 4252528 | 26310 | 9050746 | 12408 | 11048813 | 15168 |
| | 20 | 4278838 | 26273 | 9038338 | 12485 | 11063981 | 15304 |
| | 30 | 4305111 | 26237 | 9025853 | 12561 | 11079285 | 15441 |
| | 40 | 4331348 | 26200 | 9013292 | 12638 | 11094726 | 15578 |
| | 50 | 4357548 | 26163 | 9000654 | 12714 | 11110304 | 15715 |
| 26 | 0 | 4383711 | 26127 | 8987940 | 12789 | 11126019 | 15855 |
| | 10 | 4409838 | 26089 | 8975151 | 12866 | 11141874 | 15995 |
| | 20 | 4435927 | 26051 | 8962285 | 12941 | 11157869 | 16135 |
| | 30 | 4461978 | 26014 | 8949344 | 13018 | 11174004 | 16277 |
| | 40 | 4487992 | 25975 | 8936326 | 13092 | 11190281 | 16419 |
| | 50 | 4513967 | 25938 | 8923234 | 13169 | 11206700 | 16562 |
| 27 | 0 | 4539905 | 25899 | 8910065 | 13243 | 11223262 | 16707 |
| | 10 | 4565804 | 25861 | 8896822 | 13319 | 11239969 | 16852 |
| | 20 | 4591665 | 25821 | 8883503 | 13395 | 11256821 | 16998 |
| | 30 | 4617486 | 25783 | 8870108 | 13469 | 11273819 | 17146 |
| | 40 | 4643269 | 25743 | 8856639 | 13544 | 11290965 | 17293 |
| | 50 | 4669012 | 25704 | 8843095 | 13619 | 11308258 | 17443 |
| | | Basis: | Differen: | Perpendiculū | Differen: | Hypotenusu | Differen: |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CVM ANGVLO RECTO IN PLANITIE PARTIVM 10000000 PONITVR

| tiū angulū rect: | | Minus | latus includentium | angulum rectum. | | | |
|------------------|-----------|------------|--------------------|-----------------|-----------|----|----|
| Perpend: | Differen: | Hypotenusa | Differen: | Basis. | Differen: | | |
| 3838640 | 33413 | 27904281 | 209749 | 26050891 | 224797 | 0 | 69 |
| 3872053 | 33488 | 27694532 | 206388 | 25826094 | 221445 | 50 | |
| 3905541 | 33564 | 27488144 | 203106 | 25604649 | 218170 | 40 | |
| 3939105 | 33641 | 27285038 | 199899 | 25386479 | 214972 | 30 | |
| 3972746 | 33719 | 27085139 | 196765 | 25171507 | 211846 | 20 | |
| 4006465 | 33797 | 26888374 | 193702 | 24959661 | 208792 | 10 | |
| 4040262 | 33877 | 26694672 | 190710 | 24750869 | 205808 | 0 | 68 |
| 4074139 | 33958 | 26503962 | 187782 | 24545061 | 202889 | 50 | |
| 4108097 | 34039 | 26316180 | 184921 | 24342172 | 200036 | 40 | |
| 4142136 | 34121 | 26131259 | 182122 | 24142136 | 197247 | 30 | |
| 4176257 | 34203 | 25949137 | 179384 | 23944889 | 194517 | 20 | |
| 4210460 | 34288 | 25769753 | 176706 | 23750372 | 191848 | 10 | |
| 4244748 | 34373 | 25593047 | 174086 | 23558524 | 189237 | 0 | 67 |
| 4279121 | 34458 | 25418961 | 171521 | 23369287 | 186681 | 50 | |
| 4313579 | 34545 | 25247440 | 169012 | 23182606 | 184181 | 40 | |
| 4348124 | 34632 | 25078428 | 166554 | 22998425 | 181732 | 30 | |
| 4382756 | 34721 | 24911874 | 164148 | 22816693 | 179336 | 20 | |
| 4417477 | 34810 | 24747726 | 161793 | 22637357 | 176989 | 10 | |
| 4452287 | 34900 | 24585933 | 159485 | 22460368 | 174692 | 0 | 66 |
| 4487187 | 34992 | 24426448 | 157226 | 22285676 | 172442 | 50 | |
| 4522179 | 35084 | 24269222 | 155012 | 22113234 | 170237 | 40 | |
| 4557263 | 35176 | 24114210 | 152843 | 21942997 | 168077 | 30 | |
| 4592439 | 35271 | 23961367 | 150717 | 21774920 | 165962 | 20 | |
| 4627710 | 35367 | 23810650 | 148634 | 21608958 | 163889 | 10 | |
| 4663077 | 35462 | 23662016 | 146592 | 21445069 | 161856 | 0 | 65 |
| 4698539 | 35559 | 23515424 | 144591 | 21283213 | 159865 | 50 | |
| 4734098 | 35657 | 23370833 | 142628 | 21123348 | 157912 | 40 | |
| 4769755 | 35757 | 23228205 | 140704 | 20965436 | 155998 | 30 | |
| 4805512 | 35856 | 23087501 | 138816 | 20809438 | 154120 | 20 | |
| 4841368 | 35958 | 22948685 | 136965 | 20655318 | 152280 | 10 | |
| 4877326 | 36060 | 22811720 | 135149 | 20503038 | 150473 | 0 | 64 |
| 4913386 | 36163 | 22676571 | 133367 | 20352565 | 148703 | 50 | |
| 4949549 | 36267 | 22543204 | 131619 | 20203862 | 146965 | 40 | |
| 4985816 | 36373 | 22411585 | 129904 | 20056897 | 145260 | 30 | |
| 5022189 | 36479 | 22281681 | 128221 | 19911637 | 143587 | 20 | |
| 5058668 | 36586 | 22153460 | 126567 | 19768050 | 141945 | 10 | |
| 5095254 | 36696 | 22026893 | 124946 | 19626105 | 140333 | 0 | 63 |
| 5131950 | 36805 | 21901947 | 123352 | 19485772 | 138752 | 50 | |
| 5168755 | 36916 | 21778595 | 121789 | 19347020 | 137199 | 40 | |
| 5205671 | 37027 | 21656806 | 120253 | 19209821 | 135674 | 30 | |
| 5242698 | 37141 | 21536553 | 118745 | 19074147 | 134176 | 20 | |
| 5279839 | 37255 | 21417808 | 117263 | 18939971 | 132706 | 10 | |
| Basis. | Differen: | Hypotenusa | Differen: | Perpendicu: | Differen: | | |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CANON DOCTRINÆ TRIANGVLORVM IN QVO TRIQVETRI

| | | Subtendens | angulum | rectum | Maius latus includen- | | |
|----|----|-------------|-----------|--------------|-----------------------|------------|-----------|
| | | Perpendicu: | Differen: | Basis | Differen: | Hypotenusā | Differen: |
| 28 | 0 | 4694716 | 25664 | 8829476 | 13694 | 11325701 | 17592 |
| | 10 | 4720380 | 25624 | 8815782 | 13768 | 11343293 | 17743 |
| | 20 | 4746004 | 25584 | 8802014 | 13843 | 11361036 | 17896 |
| | 30 | 4771588 | 25543 | 8788171 | 13917 | 11378932 | 18048 |
| | 40 | 4797131 | 25503 | 8774254 | 13991 | 11396980 | 18203 |
| | 50 | 4822634 | 25462 | 8760263 | 14066 | 11415183 | 18358 |
| | 0 | 4848096 | 25421 | 8746197 | 14139 | 11433541 | 18514 |
| | 10 | 4873517 | 25380 | 8732058 | 14214 | 11452055 | 18671 |
| | 20 | 4898897 | 25339 | 8717844 | 14287 | 11470726 | 18829 |
| 29 | 30 | 4924236 | 25296 | 8703557 | 14361 | 11489555 | 18989 |
| | 40 | 4949532 | 25255 | 8689196 | 14434 | 11508544 | 19150 |
| | 50 | 4974787 | 25213 | 8674762 | 14508 | 11527694 | 19311 |
| | 0 | 5000000 | 25170 | 8660254 | 14581 | 11547005 | 19475 |
| | 10 | 5025170 | 25128 | 8645673 | 14654 | 11566480 | 19638 |
| | 20 | 5050298 | 25086 | 8631019 | 14727 | 11586118 | 19803 |
| 30 | 30 | 5075384 | 25042 | 8616292 | 14801 | 11605921 | 19970 |
| | 40 | 5100426 | 24999 | 8601491 | 14872 | 11625891 | 20137 |
| | 50 | 5125425 | 24956 | 8586619 | 14946 | 11646028 | 20306 |
| | 0 | 5150381 | 24912 | 8571673 | 15018 | 11666334 | 20476 |
| | 10 | 5175293 | 24868 | 8556655 | 15091 | 11686810 | 20647 |
| | 20 | 5200161 | 24825 | 8541564 | 15162 | 11707457 | 20820 |
| 31 | 30 | 5224986 | 24780 | 8526402 | 15235 | 11728277 | 20993 |
| | 40 | 5249766 | 24736 | 8511167 | 15307 | 11749270 | 21169 |
| | 50 | 5274502 | 24691 | 8495860 | 15379 | 11770439 | 21345 |
| | 0 | 5299193 | 24646 | 8480481 | 15451 | 11791784 | 21523 |
| | 10 | 5323839 | 24601 | 8465030 | 15522 | 11813307 | 21701 |
| | 20 | 5348440 | 24556 | 8449508 | 15594 | 11835008 | 21882 |
| 32 | 30 | 5372996 | 24511 | 8433914 | 15665 | 11856890 | 22064 |
| | 40 | 5397507 | 24464 | 8418249 | 15736 | 11878954 | 22247 |
| | 50 | 5421971 | 24419 | 8402513 | 15807 | 11901201 | 22432 |
| | 0 | 5446390 | 24373 | 8386706 | 15879 | 11923633 | 22618 |
| | 10 | 5470763 | 24327 | 8370827 | 15949 | 11946251 | 22805 |
| | 20 | 5495090 | 24280 | 8354878 | 16020 | 11969056 | 22993 |
| 33 | 30 | 5519370 | 24233 | 8338858 | 16090 | 11992049 | 23185 |
| | 40 | 5543603 | 24187 | 8322768 | 16161 | 12015234 | 23376 |
| | 50 | 5567790 | 24139 | 8306607 | 16231 | 12038610 | 23569 |
| | 0 | 5591929 | 24092 | 8290376 | 16302 | 12062179 | 23765 |
| | 10 | 5616021 | 24045 | 8274074 | 16371 | 12085944 | 23961 |
| | 20 | 5640066 | 23996 | 8257703 | 16441 | 12109905 | 24159 |
| 34 | 30 | 5664062 | 23949 | 8241262 | 16511 | 12134064 | 24359 |
| | 40 | 5688011 | 23901 | 8224751 | 16581 | 12158423 | 24560 |
| | 50 | 5711912 | 23852 | 8208170 | 16650 | 12182983 | 24763 |
| | | Basis: | Differen: | Perpendiculū | Differen: | Hypotenusā | Differen: |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CVM ANGVLO RECTO IN PLANITIE PARTIVM 10000000 PONITVR

| tiū angulū rect: | | Minus | latus includentium | angulum rectum. | | | |
|------------------|-----------|------------|--------------------|-----------------|-----------|----|----|
| Perpend: | Differen: | Hypotenusa | Differen: | Basis. | Differen: | | |
| 5317094 | 37371 | 21300545 | 115808 | 18807265 | 131262 | 0 | 62 |
| 5354465 | 37487 | 21184737 | 114378 | 18676003 | 129844 | 50 | |
| 5391952 | 37605 | 21070359 | 112974 | 18546159 | 128450 | 40 | |
| 5429557 | 37724 | 20957385 | 111593 | 18417709 | 127081 | 30 | |
| 5467281 | 37844 | 20845792 | 110236 | 18290628 | 125736 | 20 | |
| 5505125 | 37966 | 20735556 | 108903 | 18164892 | 124414 | 10 | |
| 5543091 | 38088 | 20626653 | 107592 | 18040478 | 123116 | 0 | 61 |
| 5581179 | 38212 | 20519061 | 106304 | 17917362 | 121838 | 50 | |
| 5619391 | 38337 | 20412757 | 105037 | 17795524 | 120584 | 40 | |
| 5657728 | 38463 | 20307720 | 103791 | 17674940 | 119350 | 30 | |
| 5696191 | 38592 | 20203929 | 102567 | 17555590 | 118137 | 20 | |
| 5734783 | 38720 | 20101362 | 101362 | 17437453 | 116945 | 10 | |
| 5773503 | 38850 | 20000000 | 100178 | 17320508 | 115772 | 0 | 60 |
| 5812353 | 38982 | 19899822 | 99012 | 17204736 | 114620 | 50 | |
| 5851335 | 39115 | 19800810 | 97866 | 17090116 | 113485 | 40 | |
| 5890450 | 39249 | 19702944 | 96738 | 16976631 | 112370 | 30 | |
| 5929699 | 39385 | 19606206 | 95629 | 16864261 | 111273 | 20 | |
| 5969084 | 39522 | 19510577 | 94537 | 16752988 | 110193 | 10 | |
| 6008606 | 39660 | 19416040 | 93462 | 16642795 | 109132 | 0 | 59 |
| 6048266 | 39801 | 19322578 | 92405 | 16533663 | 108087 | 50 | |
| 6088067 | 39941 | 19230173 | 91364 | 16425576 | 107059 | 40 | |
| 6128008 | 40084 | 19138809 | 90340 | 16318517 | 106048 | 30 | |
| 6168092 | 40228 | 19048469 | 89331 | 16212469 | 105052 | 20 | |
| 6208320 | 40374 | 18959138 | 88339 | 16107417 | 104072 | 10 | |
| 6248694 | 40520 | 18870799 | 87361 | 16003345 | 103107 | 0 | 58 |
| 6289214 | 40669 | 18783438 | 86398 | 15900238 | 102159 | 50 | |
| 6329883 | 40820 | 18697040 | 85450 | 15798079 | 101223 | 40 | |
| 6370703 | 40970 | 18611590 | 84517 | 15696856 | 100304 | 30 | |
| 6411673 | 41124 | 18527073 | 83597 | 15596552 | 99397 | 20 | |
| 6452797 | 41279 | 18443476 | 82691 | 15497155 | 98505 | 10 | |
| 6494076 | 41435 | 18360785 | 81800 | 15398650 | 97627 | 0 | 57 |
| 6535511 | 41592 | 18278985 | 80920 | 15301023 | 96762 | 50 | |
| 6577103 | 41753 | 18198065 | 80055 | 15204261 | 95909 | 40 | |
| 6618856 | 41913 | 18118010 | 79201 | 15108352 | 95070 | 30 | |
| 6660769 | 42076 | 18038809 | 78360 | 15013282 | 94243 | 20 | |
| 6702845 | 42240 | 17960449 | 77533 | 14919039 | 93429 | 10 | |
| 6745085 | 42407 | 17882916 | 76715 | 14825610 | 92627 | 0 | 56 |
| 6787492 | 42574 | 17806201 | 75911 | 14732983 | 91836 | 50 | |
| 6830066 | 42744 | 17730290 | 75117 | 14641147 | 91057 | 40 | |
| 6872810 | 42915 | 17655173 | 74336 | 14550090 | 90289 | 30 | |
| 6915725 | 43088 | 17580837 | 73564 | 14459801 | 89533 | 20 | |
| 6958813 | 43262 | 17507273 | 72805 | 14370268 | 88788 | 10 | |
| Basis. | Differen: | Hypotenusa | Differen: | Perpendicu: | Differen: | | |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CANON DOCTRINÆ TRIANGVLORVM IN QVO TRIQVETRI

| | | Subtendens | angulum | rectum | Maius latus includen- | | |
|----|----|-------------|-----------|--------------|-----------------------|------------|-----------|
| | | Perpendicu: | Differen: | Basis | Differen: | Hypotenusu | Differen: |
| 35 | 0 | 5735764 | 23804 | 8191520 | 16719 | 12207746 | 24967 |
| | 10 | 5759568 | 23755 | 8174801 | 16788 | 12232713 | 25174 |
| | 20 | 5783323 | 23707 | 8158013 | 16858 | 12257887 | 25382 |
| | 30 | 5807030 | 23657 | 8141155 | 16926 | 12283269 | 25592 |
| | 40 | 5830687 | 23607 | 8124229 | 16995 | 12308861 | 25803 |
| | 50 | 5854294 | 23559 | 8107234 | 17064 | 12334664 | 26016 |
| | 0 | 5877853 | 23508 | 8090170 | 17132 | 12360680 | 26231 |
| | 10 | 5901361 | 23458 | 8073038 | 17201 | 12386911 | 26448 |
| | 20 | 5924819 | 23409 | 8055837 | 17268 | 12413359 | 26667 |
| 36 | 30 | 5948228 | 23358 | 8038569 | 17337 | 12440026 | 26887 |
| | 40 | 5971586 | 23307 | 8021232 | 17405 | 12466913 | 27110 |
| | 50 | 5994893 | 23257 | 8003827 | 17472 | 12494023 | 27334 |
| | 0 | 6018150 | 23206 | 7986355 | 17540 | 12521357 | 27560 |
| | 10 | 6041356 | 23155 | 7968815 | 17607 | 12548917 | 27788 |
| | 20 | 6064511 | 23103 | 7951208 | 17675 | 12576705 | 28019 |
| 37 | 30 | 6087614 | 23052 | 7933533 | 17741 | 12604724 | 28251 |
| | 40 | 6110666 | 23000 | 7915792 | 17809 | 12632975 | 28485 |
| | 50 | 6133666 | 22949 | 7897983 | 17875 | 12661460 | 28722 |
| | 0 | 6156615 | 22896 | 7880108 | 17943 | 12690182 | 28960 |
| | 10 | 6179511 | 22844 | 7862165 | 18008 | 12719142 | 29201 |
| | 20 | 6202355 | 22791 | 7844157 | 18075 | 12748343 | 29444 |
| 38 | 30 | 6225146 | 22739 | 7826082 | 18142 | 12777787 | 29688 |
| | 40 | 6247885 | 22686 | 7807940 | 18207 | 12807475 | 29936 |
| | 50 | 6270571 | 22633 | 7789733 | 18273 | 12837411 | 30185 |
| | 0 | 6293204 | 22580 | 7771460 | 18339 | 12867596 | 30436 |
| | 10 | 6315784 | 22526 | 7753121 | 18405 | 12898032 | 30691 |
| | 20 | 6338310 | 22472 | 7734716 | 18470 | 12928723 | 30947 |
| 39 | 30 | 6360782 | 22419 | 7716246 | 18536 | 12959670 | 31206 |
| | 40 | 6383201 | 22365 | 7697710 | 18600 | 12990876 | 31467 |
| | 50 | 6405566 | 22310 | 7679110 | 18666 | 13022343 | 31730 |
| | 0 | 6427876 | 22256 | 7660444 | 18730 | 13054073 | 31996 |
| | 10 | 6450132 | 22202 | 7641714 | 18795 | 13086069 | 32265 |
| | 20 | 6472334 | 22146 | 7622919 | 18859 | 13118334 | 32536 |
| 40 | 30 | 6494480 | 22092 | 7604060 | 18924 | 13150870 | 32810 |
| | 40 | 6516572 | 22037 | 7585136 | 18988 | 13183680 | 33085 |
| | 50 | 6538609 | 21981 | 7566148 | 19052 | 13216765 | 33365 |
| | 0 | 6560590 | 21926 | 7547096 | 19116 | 13250130 | 33646 |
| | 10 | 6582516 | 21870 | 7527980 | 19180 | 13283776 | 33931 |
| | 20 | 6604386 | 21814 | 7508800 | 19243 | 13317707 | 34217 |
| 41 | 30 | 6626200 | 21759 | 7489557 | 19306 | 13351924 | 34508 |
| | 40 | 6647959 | 21702 | 7470251 | 19370 | 13386432 | 34800 |
| | 50 | 6669661 | 21645 | 7450881 | 19433 | 13421232 | 35095 |
| | | Basis: | Differen: | Perpendiculū | Differen: | Hypotenusu | Differen: |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CVM ANGVLO RECTO IN PLANITIE PARTIVM 10000000 PONITVR

| tiū angulū rect: | | Minus | latus includentium | angulum rectum. | | | |
|------------------|-----------|------------|--------------------|-----------------|-----------|----|----|
| Perpend: | Differen: | Hypotenusa | Differen: | Basis. | Differen: | | |
| 7002075 | 43440 | 17434468 | 72055 | 14281480 | 88053 | 0 | 55 |
| 7045515 | 43618 | 17362413 | 71317 | 14193427 | 87329 | 50 | |
| 7089133 | 43798 | 17291096 | 70588 | 14106098 | 86615 | 40 | |
| 7132931 | 43980 | 17220508 | 69869 | 14019483 | 85912 | 30 | |
| 7176911 | 44164 | 17150639 | 69161 | 13933571 | 85218 | 20 | |
| 7221075 | 44350 | 17081478 | 68462 | 13848353 | 84534 | 10 | |
| 7265425 | 44538 | 17013016 | 67772 | 13763819 | 83860 | 0 | 54 |
| 7309963 | 44728 | 16945244 | 67093 | 13679959 | 83195 | 50 | |
| 7354691 | 44920 | 16878151 | 66421 | 13596764 | 82540 | 40 | |
| 7399611 | 45113 | 16811730 | 65760 | 13514224 | 81893 | 30 | |
| 7444724 | 45309 | 16745970 | 65106 | 13432331 | 81256 | 20 | |
| 7490033 | 45508 | 16680864 | 64463 | 13351075 | 80627 | 10 | |
| 7535541 | 45707 | 16616401 | 63826 | 13270448 | 80007 | 0 | 53 |
| 7581248 | 45909 | 16552575 | 63199 | 13190441 | 79395 | 50 | |
| 7627157 | 46113 | 16489376 | 62580 | 13111046 | 78792 | 40 | |
| 7673270 | 46319 | 16426796 | 61968 | 13032254 | 78197 | 30 | |
| 7719589 | 46529 | 16364828 | 61366 | 12954057 | 77610 | 20 | |
| 7766118 | 46738 | 16303462 | 60770 | 12876447 | 77031 | 10 | |
| 7812856 | 46952 | 16242692 | 60182 | 12799416 | 76459 | 0 | 52 |
| 7859808 | 47167 | 16182510 | 59602 | 12722957 | 75895 | 50 | |
| 7906975 | 47384 | 16122908 | 59029 | 12647062 | 75339 | 40 | |
| 7954359 | 47604 | 16063879 | 58463 | 12571723 | 74790 | 30 | |
| 8001963 | 47827 | 16005416 | 57905 | 12496933 | 74248 | 20 | |
| 8049790 | 48050 | 15947511 | 57354 | 12422685 | 73713 | 10 | |
| 8097840 | 48278 | 15890157 | 56809 | 12348972 | 73186 | 0 | 51 |
| 8146118 | 48507 | 15833348 | 56271 | 12275786 | 72665 | 50 | |
| 8194625 | 48739 | 15777077 | 55740 | 12203121 | 72151 | 40 | |
| 8243364 | 48973 | 15721337 | 55216 | 12130970 | 71643 | 30 | |
| 8292337 | 49210 | 15666121 | 54697 | 12059327 | 71143 | 20 | |
| 8341547 | 49449 | 15611424 | 54186 | 11988184 | 70648 | 10 | |
| 8390996 | 49692 | 15557238 | 53680 | 11917536 | 70160 | 0 | 50 |
| 8440688 | 49936 | 15503558 | 53180 | 11847376 | 69678 | 50 | |
| 8490624 | 50183 | 15450378 | 52688 | 11777698 | 69202 | 40 | |
| 8540807 | 50433 | 15397690 | 52199 | 11708496 | 68733 | 30 | |
| 8591240 | 50686 | 15345491 | 51718 | 11639763 | 68268 | 20 | |
| 8641926 | 50941 | 15293773 | 51242 | 11571495 | 67811 | 10 | |
| 8692867 | 51200 | 15242531 | 50772 | 11503684 | 67358 | 0 | 49 |
| 8744067 | 51461 | 15191759 | 50307 | 11436326 | 66912 | 50 | |
| 8795528 | 51725 | 15141452 | 49847 | 11369414 | 66470 | 40 | |
| 8847253 | 51991 | 15091605 | 49394 | 11302944 | 66035 | 30 | |
| 8899244 | 52262 | 15042211 | 48944 | 11236909 | 65604 | 20 | |
| 8951506 | 52534 | 14993267 | 48502 | 11171305 | 65180 | 10 | |
| Basis. | Differen: | Hypotenusa | Differen: | Perpendicu: | Differen: | | |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CANON DOCTRINÆ TRIANGVLORVM IN QVO TRIQVETRI

| | | Subtendens | angulum | rectum | Maius latus includen- | | |
|----|----|-------------|-----------|--------------|-----------------------|------------|-----------|
| | | Perpendicu: | Differen: | Basis | Differen: | Hypotenusu | Differen: |
| 42 | 0 | 6691306 | 21589 | 7431448 | 19495 | 13456327 | 35394 |
| | 10 | 6712895 | 21532 | 7411953 | 19559 | 13491721 | 35696 |
| | 20 | 6734427 | 21475 | 7392394 | 19621 | 13527417 | 36000 |
| | 30 | 6755902 | 21418 | 7372773 | 19683 | 13563417 | 36308 |
| | 40 | 6777320 | 21361 | 7353090 | 19745 | 13599725 | 36618 |
| | 50 | 6798681 | 21303 | 7333345 | 19808 | 13636343 | 36932 |
| | 0 | 6819984 | 21245 | 7313537 | 19869 | 13673275 | 37248 |
| | 10 | 6841229 | 21187 | 7293668 | 19932 | 13710523 | 37569 |
| 43 | 20 | 6862416 | 21130 | 7273736 | 19992 | 13748092 | 37893 |
| | 30 | 6883546 | 21071 | 7253744 | 20054 | 13785985 | 38219 |
| | 40 | 6904617 | 21013 | 7233690 | 20116 | 13824204 | 38549 |
| | 50 | 6925630 | 20954 | 7213574 | 20176 | 13862753 | 38883 |
| | 0 | 6946584 | 20895 | 7193398 | 20237 | 13901636 | 39220 |
| | 10 | 6967479 | 20836 | 7173161 | 20298 | 13940856 | 39560 |
| 44 | 20 | 6988315 | 20778 | 7152863 | 20359 | 13980416 | 39905 |
| | 30 | 7009093 | 20718 | 7132504 | 20418 | 14020321 | 40252 |
| | 40 | 7029811 | 20658 | 7112086 | 20479 | 14060573 | 40604 |
| | 50 | 7050469 | 20599 | 7091607 | 20539 | 14101177 | 40959 |
| 45 | 0 | 7071068 | | 7071068 | | 14142136 | |
| | | Basis: | Differen: | Perpendiculū | Differen: | Hypotenusu | Differen: |

Rheticus's 1551 table (reconstruction, D. Roegel, 2010)

CVM ANGVLO RECTO IN PLANITIE PARTIVM 10000000 PONITVR

| tiū angulū rect: | | Minus | latus includentium | angulum rectum. | | | |
|------------------|-----------|------------|--------------------|-----------------|-----------|----|----|
| Perpend: | Differen: | Hypotenusa | Differen: | Basis. | Differen: | | |
| 9004040 | 52811 | 14944765 | 48062 | 11106125 | 64760 | 0 | 48 |
| 9056851 | 53089 | 14896703 | 47630 | 11041365 | 64345 | 50 | |
| 9109940 | 53372 | 14849073 | 47201 | 10977020 | 63935 | 40 | |
| 9163312 | 53657 | 14801872 | 46777 | 10913085 | 63531 | 30 | |
| 9216969 | 53945 | 14755095 | 46359 | 10849554 | 63131 | 20 | |
| 9270914 | 54237 | 14708736 | 45944 | 10786423 | 62736 | 10 | |
| 9325151 | 54532 | 14662792 | 45535 | 10723687 | 62346 | 0 | 47 |
| 9379683 | 54830 | 14617257 | 45130 | 10661341 | 61960 | 50 | |
| 9434513 | 55133 | 14572127 | 44730 | 10599381 | 61580 | 40 | |
| 9489646 | 55437 | 14527397 | 44334 | 10537801 | 61203 | 30 | |
| 9545083 | 55746 | 14483063 | 43943 | 10476598 | 60831 | 20 | |
| 9600829 | 56059 | 14439120 | 43555 | 10415767 | 60464 | 10 | |
| 9656888 | 56374 | 14395565 | 43172 | 10355303 | 60100 | 0 | 46 |
| 9713262 | 56694 | 14352393 | 42793 | 10295203 | 59742 | 50 | |
| 9769956 | 57017 | 14309600 | 42418 | 10235461 | 59387 | 40 | |
| 9826973 | 57343 | 14267182 | 42048 | 10176074 | 59036 | 30 | |
| 9884316 | 57675 | 14225134 | 41680 | 10117038 | 58690 | 20 | |
| 9941991 | 58009 | 14183454 | 41318 | 10058348 | 58348 | 10 | |
| 10000000 | | 14142136 | | 10000000 | | 0 | 45 |
| Basis. | Differen: | Hypotenusa | Differen: | Perpendicu: | Differen: | | |