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Denis Roegel

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A reconstruction
of Viète's
Canonion triangulorum
(1579)

Denis Roegel

20 December 2011

1 Viète (1540–1603)

François Viète was probably the greatest French mathematician of the 16th century. He was a lawyer, but worked in parallel on mathematics. He developed a new algebra with the use of letters as parameters in equations.

2 The *Canonion triangulorum* (1579)

In his *Canonion triangulorum*, which is part of the *Canon mathematicus* (1579), Viète gave a number of right-angled triangles with rational sides. More precisely, Viète gave the Pythagorean triples

$$\left(\frac{4n}{n^2 + 4}, \frac{n^2 - 4}{n^2 + 4}, 1 \right) \quad (1)$$

$$\left(\frac{4n}{n^2 - 4}, 1, \frac{n^2 + 4}{n^2 - 4} \right) \quad (2)$$

$$\left(1, \frac{n^2 - 4}{4n}, \frac{n^2 + 4}{4n} \right) \quad (3)$$

for 1422 values of n and scaled by a factor 100000. These triples are of the form (b, p, h) , where $b^2 + p^2 = h^2$, b being the basis, p the perpendicular, and h the hypotenuse of a right triangle. The above formulæ were given by Viète at the end of the *Canonion*. They were of course not expressed in modern terms, but using more verbose expressions.

In the first sequence of triples (*series I*), the hypotenuse is made constant and equal to 100000. In the second sequence (*series II*), the perpendicular is constant, and in the third sequence (*series III*), it is the basis. These sequences are the same as those used in Viète's trigonometric table [14].

The layout of the table alternates between odd and even pages, with symmetrical sequences of triple series. The value of n is given in the right column of odd pages, and in the left column of even pages. The first value of the first page corresponds to $n = 999424$, and the three corresponding triples are

$$\left(\frac{19988480000}{49942416589}, 99999 + \frac{49942376589}{49942416589}, 100000 \right), \quad (4)$$

$$\left(\frac{99942400000}{249712082943}, 100000, 100000 + \frac{200000}{249712082943} \right), \quad (5)$$

$$\left(100000, 24985599999 + \frac{28107}{31232}, 24985600000 + \frac{3125}{31232} \right) \quad (6)$$

The last value of the table corresponds to $n = 1$, but this value leads to negative values in the triples, and Viète therefore replaced all values by \blacklozenge .

For $n = 2$, only the first and third triples are meaningful, and are $(100000, 0, 100000)$ and $(100000, 0, 100000)$. Viète replaced the two zeros by \blacklozenge , and put \blacklozenge for the second triple.

The triples were not given for all values of n from 1 to 999424, but for the fourteen sequences

$1, 2, 3, \dots, 200,$
 $202, 204, 206, \dots, 400,$
 $404, 408, 412, \dots, 800,$
 $808, 816, 824, \dots, 1600,$
 \dots
 $100 \cdot 2^{m-1} + 2^{m-1}, 100 \cdot 2^{m-1} + 2 \cdot 2^{m-1}, \dots, 100 \cdot 2^m$
 \dots
 $413696, 417792, 421888, \dots, 819200,$
 $827392, 835584, 843776, \dots, 999424$

Each sequence, except the first and the last, contains 100 terms. n takes a total of $200 + 100 \times 12 + 22 = 1422$ values.

According to Ritter [9, p. 47], Viète may have computed this table in order to provide better approximations of the equation of time, or of the difference between the true and mean motion of a planet. Viète himself acknowledged the little utility of his table. Delambre wrote that the triangles are expressed with fractions which are so large that their practical utility is not clear [3, p. 456].

Viète's table seems to be rather accurate, according to our samples. The only error found among the several dozen values examined is that for the index 29 (last page). Viète gave the pair $(13727 + \frac{137}{169}, 99054 + \frac{114}{169})$ instead of $(13727 + \frac{137}{169}, 99053 + \frac{43}{169})$.

Viète's work made its way to Thomas Harriot through Nathaniel Torporley [12, 11].

3 Reconstruction

The values of the table were computed using the GNU `mpfr` multiple-precision floating-point library developed at INRIA [5]. In this case, the library was only used with integers and fractions were simplified using an implementation of Euclid's GCD algorithm.

We have tried to remain as close as possible to the original layout, but we currently didn't make use of colors. The original tables may have some parts in color. As soon as we get a chance to consult the original table, we will adapt the coloring if necessary.

References

The following list covers the most important references¹ related to Viète's tables. Not all items of this list are mentioned in the text, and the sources which have not been seen are marked so. We have added notes about the contents of the articles in certain cases.

- [1] Anonymous. Article “Table”. In *The Penny Cyclopædia of the Society for the Diffusion of Useful Knowledge*, volume 23, pages 496–501. London: Charles Knight and co., 1842.
- [2] Henri Bosmans. Le traité des sinus de Michiel Coignet. *Annales de la Société Scientifique de Bruxelles*, 25 (seconde partie, mémoires):91–170, 1901–1902.
- [3] Jean-Baptiste Joseph Delambre. *Histoire de l'astronomie du moyen âge*. Paris: Veuve Courcier, 1819. [pp. 455–483 on Viète]
- [4] Gustaf Eneström. M. Cantor. Vorlesungen über Geschichte der Mathematik (review). *Bibliotheca mathematica*, 6 (new series):91–92, 1892.
- [5] Laurent Fousse, Guillaume Hanrot, Vincent Lefèvre, Patrick Pélissier, and Paul Zimmermann. MPFR: A multiple-precision binary floating-point library with correct rounding. *ACM Transactions on Mathematical Software*, 33(2), 2007.
- [6] James Whitbread Lee Glaisher. *Report of the committee on mathematical tables*. London: Taylor and Francis, 1873. [Also published as part of the “Report of the forty-third meeting of the British Association for the advancement of science,” London: John Murray, 1874. A review by R. Radau was published in the *Bulletin des sciences mathématiques et astronomiques*, volume 11, 1876, pp. 7–27]
- [7] Karl Hunrath. Des Rheticus *Canon doctrinæ triangulorum* und Vieta's *Canon mathematicus*. *Zeitschrift für Mathematik und Physik*, 44 (supplement):211–240, 1899. [= *Abandhandlungen zur Geschichte der Mathematik*, 9th volume]
- [8] Charles Hutton. *Mathematical tables*. London: G. G. J. Robinson, J. Robinson and R. Baldwin, 1785. [The same text on Viète was reproduced in later editions.]
- [9] Frédéric Ritter. *François Viète, inventeur de l'algèbre moderne, 1540–1603, notice sur sa vie et son œuvre*. Paris: Dépôt de la Revue occidentale, 1895. [Ritter wrote much more material on Viète and his manuscripts are at the library of the *Institut* in Paris, Ms. 2004–2012.]

¹**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.

- [10] Denis Roegel. A reconstruction of Viète’s *Canon Mathematicus* (1579). Technical report, LORIA, Nancy, 2011. [This is a reconstruction of the main table of [14].]
- [11] Jacqueline Stedall. Notes made by Thomas Harriot on the treatises of François Viète. *Archive for history of exact sciences*, 62(2):179–200, 2008.
- [12] Rosalind Cecilia Hildegard Tanner. Nathaniel Torporley’s ‘Congestor analyticus’ and Thomas Harriot’s ‘De triangulis laterum rationalium’. *Annals of Science*, 34:393–428, 1977.
- [13] Paul Tannery. Ritter (Frédéric). François Viète, notice sur sa vie et son œuvre (review). *Bulletin des sciences mathématiques*, 20:204–211, 1896.
- [14] François Viète. *Canon mathematicus seu ad triangula cum appendicibus*. Paris: Jean Mettayer, 1579. [The main table was reconstructed in [10].]
- [15] François Viète. *Canonion triangulorum laterum rationalium*. Paris: Jean Mettayer, 1579. [part of the *Canon mathematicus* [14]]
- [16] Mary Claudia Zeller. *The development of trigonometry from Regiomontanus to Pitiscus*. PhD thesis, University of Michigan, 1944. [published in 1946]

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| CANONION TRIANGVLORVM LATERVM RATIONALIVM | | | | | | | | | | 3 | | |
|---|--|--------|---|---|--|----------------|-----------------------------------|----------------|-------------------------|----------------|------------------------|----------------------------|
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| | | | | | | | | | | &c. | | |
| 0 | $\frac{19,988,480,000}{49,942,416,589}$ | 99,999 | $\frac{49,942,376,589}{49,942,416,589}$ | 0 | $\frac{99,942,400,000}{249,712,082,943}$ | 100,000 | $\frac{200,000}{249,712,082,943}$ | 24,985,599,999 | $\frac{28,107}{31,232}$ | 24,985,600,000 | $\frac{3,125}{31,232}$ | 999,424 |
| 0 | $\frac{99,123,200,000}{245,635,219,457}$ | 99,999 | $\frac{245,635,019,457}{245,635,219,457}$ | 0 | $\frac{19,824,640,000}{49,127,043,891}$ | 100,000 | $\frac{40,000}{49,127,043,891}$ | 24,780,799,999 | $\frac{27,851}{30,976}$ | 24,780,800,000 | $\frac{3,125}{30,976}$ | 991,232 |
| 0 | $\frac{98,304,000,000}{241,591,910,401}$ | 99,999 | $\frac{241,591,710,401}{241,591,910,401}$ | 0 | $\frac{98,304,000,000}{241,591,910,399}$ | 100,000 | $\frac{200,000}{241,591,910,399}$ | 24,575,999,999 | $\frac{5,519}{6,144}$ | 24,576,000,000 | $\frac{625}{6,144}$ | 983,040 |
| 0 | $\frac{97,484,800,000}{237,582,155,777}$ | 99,999 | $\frac{237,581,955,777}{237,582,155,777}$ | 0 | $\frac{3,899,392,000}{9,503,286,231}$ | 100,000 | $\frac{8,000}{9,503,286,231}$ | 24,371,199,999 | $\frac{27,339}{30,464}$ | 24,371,200,000 | $\frac{3,125}{30,464}$ | 974,848 |
| 0 | $\frac{19,333,120,000}{46,721,191,117}$ | 99,999 | $\frac{46,721,151,117}{46,721,191,117}$ | 0 | $\frac{96,665,600,000}{233,605,955,583}$ | 100,000 | $\frac{200,000}{233,605,955,583}$ | 24,166,399,999 | $\frac{27,083}{30,208}$ | 24,166,400,000 | $\frac{3,125}{30,208}$ | 966,656 |
| 0 | $\frac{3,833,856,000}{9,186,532,393}$ | 99,999 | $\frac{9,186,524,393}{9,186,532,393}$ | 0 | $\frac{95,846,400,000}{229,663,309,823}$ | 100,000 | $\frac{200,000}{229,663,309,823}$ | 23,961,599,999 | $\frac{26,827}{29,952}$ | 23,961,600,000 | $\frac{3,125}{29,952}$ | 958,464 |
| 0 | $\frac{95,027,200,000}{225,754,218,497}$ | 99,999 | $\frac{225,754,018,497}{225,754,218,497}$ | 0 | $\frac{19,005,440,000}{45,150,843,699}$ | 100,000 | $\frac{40,000}{45,150,843,699}$ | 23,756,799,999 | $\frac{26,571}{29,696}$ | 23,756,800,000 | $\frac{3,125}{29,696}$ | 950,272 |
| 0 | $\frac{94,208,000,000}{221,878,681,601}$ | 99,999 | $\frac{221,878,481,601}{221,878,681,601}$ | 0 | $\frac{94,208,000,000}{221,878,681,599}$ | 100,000 | $\frac{200,000}{221,878,681,599}$ | 23,551,999,999 | $\frac{5,263}{5,888}$ | 23,552,000,000 | $\frac{625}{5,888}$ | 942,080 |
| 0 | $\frac{93,388,800,000}{218,036,699,137}$ | 99,999 | $\frac{218,036,499,137}{218,036,699,137}$ | 0 | $\frac{18,677,760,000}{43,607,339,827}$ | 100,000 | $\frac{40,000}{43,607,339,827}$ | 23,347,199,999 | $\frac{26,059}{29,184}$ | 23,347,200,000 | $\frac{3,125}{29,184}$ | 933,888 |
| 0 | $\frac{18,513,920,000}{42,845,654,221}$ | 99,999 | $\frac{42,845,614,221}{42,845,654,221}$ | 0 | $\frac{92,569,600,000}{214,228,271,103}$ | 100,000 | $\frac{200,000}{214,228,271,103}$ | 23,142,399,999 | $\frac{25,803}{28,928}$ | 23,142,400,000 | $\frac{3,125}{28,928}$ | 925,696 |
| 0 | $\frac{18,350,080,000}{42,090,679,501}$ | 99,999 | $\frac{42,090,639,501}{42,090,679,501}$ | 0 | $\frac{91,750,400,000}{210,453,397,503}$ | 100,000 | $\frac{200,000}{210,453,397,503}$ | 22,937,599,999 | $\frac{25,547}{28,672}$ | 22,937,600,000 | $\frac{3,125}{28,672}$ | 917,504 |
| 0 | $\frac{99,931,200,000}{206,712,078,337}$ | 99,999 | $\frac{206,711,878,337}{206,712,078,337}$ | 0 | $\frac{18,186,240,000}{41,342,415,667}$ | 100,000 | $\frac{40,000}{41,342,415,667}$ | 22,732,799,999 | $\frac{25,291}{28,416}$ | 22,732,800,000 | $\frac{3,125}{28,416}$ | 909,312 |
| 0 | $\frac{90,112,000,000}{203,004,313,601}$ | 99,999 | $\frac{203,004,113,601}{203,004,313,601}$ | 0 | $\frac{90,112,000,000}{203,004,313,599}$ | 100,000 | $\frac{200,000}{203,004,313,599}$ | 22,527,999,999 | $\frac{5,007}{5,632}$ | 22,528,000,000 | $\frac{625}{5,632}$ | 901,120 |
| 0 | $\frac{89,292,800,000}{199,330,103,297}$ | 99,999 | $\frac{199,329,903,297}{199,330,103,297}$ | 0 | $\frac{17,858,560,000}{39,866,020,659}$ | 100,000 | $\frac{40,000}{39,866,020,659}$ | 22,323,199,999 | $\frac{24,779}{27,904}$ | 22,323,200,000 | $\frac{3,125}{27,904}$ | 892,928 |
| 0 | $\frac{3,538,944,000}{7,827,577,897}$ | 99,999 | $\frac{7,827,569,897}{7,827,577,897}$ | 0 | $\frac{88,473,600,000}{195,689,447,423}$ | 100,000 | $\frac{200,000}{195,689,447,423}$ | 22,118,399,999 | $\frac{24,523}{27,648}$ | 22,118,400,000 | $\frac{3,125}{27,648}$ | 884,736 |
| 0 | $\frac{17,539,880,000}{38,416,469,197}$ | 99,999 | $\frac{38,416,429,197}{38,416,469,197}$ | 0 | $\frac{87,654,400,000}{192,082,345,983}$ | 100,000 | $\frac{200,000}{192,082,345,983}$ | 21,913,599,999 | $\frac{24,267}{27,392}$ | 21,913,600,000 | $\frac{3,125}{27,392}$ | 876,544 |
| 0 | $\frac{86,835,200,000}{188,508,798,977}$ | 99,999 | $\frac{188,508,598,977}{188,508,798,977}$ | 0 | $\frac{3,473,408,000}{7,540,351,959}$ | 100,000 | $\frac{8,000}{7,540,351,959}$ | 21,708,799,999 | $\frac{24,011}{27,136}$ | 21,708,800,000 | $\frac{3,125}{27,136}$ | 868,352 |
| 0 | $\frac{86,016,000,000}{184,968,806,401}$ | 99,999 | $\frac{184,968,606,401}{184,968,806,401}$ | 0 | $\frac{86,016,000,000}{184,968,806,399}$ | 100,000 | $\frac{200,000}{184,968,806,399}$ | 21,503,999,999 | $\frac{4,751}{5,376}$ | 21,504,000,000 | $\frac{625}{5,376}$ | 860,160 |
| 0 | $\frac{85,196,800,000}{181,462,368,257}$ | 99,999 | $\frac{181,462,168,257}{181,462,368,257}$ | 0 | $\frac{17,039,360,000}{36,292,473,651}$ | 100,000 | $\frac{40,000}{36,292,473,651}$ | 21,299,199,999 | $\frac{23,499}{26,624}$ | 21,299,200,000 | $\frac{3,125}{26,624}$ | 851,968 |
| 0 | $\frac{16,875,520,000}{35,597,896,909}$ | 99,999 | $\frac{35,597,856,909}{35,597,896,909}$ | 0 | $\frac{84,377,600,000}{177,989,484,543}$ | 100,000 | $\frac{200,000}{177,989,484,543}$ | 21,094,399,999 | $\frac{23,243}{26,368}$ | 21,094,400,000 | $\frac{3,125}{26,368}$ | 843,776 |
| 0 | $\frac{16,711,680,000}{34,910,031,053}$ | 99,999 | $\frac{34,909,991,053}{34,910,031,053}$ | 0 | $\frac{83,558,400,000}{174,550,155,263}$ | 100,000 | $\frac{200,000}{174,550,155,263}$ | 20,889,599,999 | $\frac{22,987}{26,112}$ | 20,889,600,000 | $\frac{3,125}{26,112}$ | 835,584 |
| 0 | $\frac{82,739,200,000}{171,144,380,417}$ | 99,999 | $\frac{171,144,180,417}{171,144,380,417}$ | 0 | $\frac{16,547,840,000}{34,228,876,083}$ | 100,000 | $\frac{40,000}{34,228,876,083}$ | 20,684,799,999 | $\frac{22,731}{25,856}$ | 20,684,800,000 | $\frac{3,125}{25,856}$ | 827,392 |
| | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | <i>Numeri primi Baseos</i> |
| | 100,000 | | | | 100,000 | | | | 100,000 | | | |
| | Hypotenusa | | | | Perpendicularum | | | | Basis | | | |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | 5 | | |
|--|--|--------|--|---|--|---|-----------------------------------|----------------|--|---------------------------------|------------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 0 | $\frac{68,812,800,000}{118,380,036,097}$ | 99,999 | $\frac{118,379,836,097}{118,380,036,097}$ | 0 | $\frac{13,762,560,000}{23,676,007,219}$ | 100,000 | $\frac{40,000}{23,676,007,219}$ | 17,203,199,999 | $\frac{18,379}{21,504}$ | $\frac{17,203,200,000}{21,504}$ | $\frac{3,125}{21,504}$ | 688,128 |
| 0 | $\frac{68,403,200,000}{116,974,944,257}$ | 99,999 | $\frac{116,974,744,257}{116,974,944,257}$ | 0 | $\frac{13,680,640,000}{23,394,988,851}$ | 100,000 | $\frac{40,000}{23,394,988,851}$ | 17,100,799,999 | $\frac{18,251}{21,376}$ | $\frac{17,100,800,000}{21,376}$ | $\frac{3,125}{21,376}$ | 684,032 |
| 0 | $\frac{2,719,744,000}{4,623,129,641}$ | 99,999 | $\frac{4,623,121,641}{4,623,129,641}$ | 0 | $\frac{67,993,600,000}{115,578,241,023}$ | 100,000 | $\frac{200,000}{115,578,241,023}$ | 16,998,399,999 | $\frac{18,123}{21,248}$ | $\frac{16,998,400,000}{21,248}$ | $\frac{3,125}{21,248}$ | 679,936 |
| 0 | $\frac{67,584,000,000}{114,189,926,401}$ | 99,999 | $\frac{114,189,726,401}{114,189,926,401}$ | 0 | $\frac{67,584,000,000}{114,189,926,399}$ | 100,000 | $\frac{200,000}{114,189,926,399}$ | 16,895,999,999 | $\frac{3,599}{4,224}$ | $\frac{16,896,000,000}{4,224}$ | $\frac{625}{4,224}$ | 675,840 |
| 0 | $\frac{13,434,880,000}{22,562,000,077}$ | 99,999 | $\frac{22,561,960,077}{22,562,000,077}$ | 0 | $\frac{67,174,400,000}{112,810,000,383}$ | 100,000 | $\frac{200,000}{112,810,000,383}$ | 16,793,599,999 | $\frac{17,867}{20,992}$ | $\frac{16,793,600,000}{20,992}$ | $\frac{3,125}{20,992}$ | 671,744 |
| 0 | $\frac{66,764,800,000}{111,438,462,977}$ | 99,999 | $\frac{111,438,262,977}{111,438,462,977}$ | 0 | $\frac{2,670,592,000}{4,457,538,519}$ | 100,000 | $\frac{8,000}{4,457,538,519}$ | 16,691,199,999 | $\frac{17,739}{20,864}$ | $\frac{16,691,200,000}{20,864}$ | $\frac{3,125}{20,864}$ | 667,648 |
| 0 | $\frac{66,355,200,000}{110,075,314,177}$ | 99,999 | $\frac{110,075,114,177}{110,075,314,177}$ | 0 | $\frac{2,654,208,000}{4,403,012,567}$ | 100,000 | $\frac{8,000}{4,403,012,567}$ | 16,588,799,999 | $\frac{17,611}{20,736}$ | $\frac{16,588,800,000}{20,736}$ | $\frac{3,125}{20,736}$ | 663,552 |
| 0 | $\frac{13,189,120,000}{21,744,110,797}$ | 99,999 | $\frac{21,744,070,797}{21,744,110,797}$ | 0 | $\frac{65,945,600,000}{108,720,553,983}$ | 100,000 | $\frac{200,000}{108,720,553,983}$ | 16,486,399,999 | $\frac{17,483}{20,608}$ | $\frac{16,486,400,000}{20,608}$ | $\frac{3,125}{20,608}$ | 659,456 |
| 0 | $\frac{65,536,000,000}{107,374,182,401}$ | 99,999 | $\frac{107,373,982,401}{107,374,182,401}$ | 0 | $\frac{65,536,000,000}{107,374,182,399}$ | 100,000 | $\frac{200,000}{107,374,182,399}$ | 16,383,999,999 | $\frac{3,471}{4,096}$ | $\frac{16,384,000,000}{4,096}$ | $\frac{625}{4,096}$ | 655,360 |
| 0 | $\frac{2,605,056,000}{4,241,447,977}$ | 99,999 | $\frac{4,241,439,977}{4,241,447,977}$ | 0 | $\frac{65,126,400,000}{106,036,199,423}$ | 100,000 | $\frac{200,000}{106,036,199,423}$ | 16,281,599,999 | $\frac{17,227}{20,352}$ | $\frac{16,281,600,000}{20,352}$ | $\frac{3,125}{20,352}$ | 651,264 |
| 0 | $\frac{64,716,800,000}{104,706,605,057}$ | 99,999 | $\frac{104,706,405,057}{104,706,605,057}$ | 0 | $\frac{12,943,360,000}{20,941,321,011}$ | 100,000 | $\frac{40,000}{20,941,321,011}$ | 16,179,199,999 | $\frac{17,099}{20,224}$ | $\frac{16,179,200,000}{20,224}$ | $\frac{3,125}{20,224}$ | 647,168 |
| 0 | $\frac{64,307,200,000}{103,385,399,297}$ | 99,999 | $\frac{103,385,199,297}{103,385,399,297}$ | 0 | $\frac{12,861,440,000}{20,677,079,859}$ | 100,000 | $\frac{40,000}{20,677,079,859}$ | 16,076,799,999 | $\frac{16,971}{20,096}$ | $\frac{16,076,800,000}{20,096}$ | $\frac{3,125}{20,096}$ | 643,072 |
| 0 | $\frac{12,779,520,000}{20,414,516,429}$ | 99,999 | $\frac{20,414,476,429}{20,414,516,429}$ | 0 | $\frac{63,897,600,000}{102,072,582,143}$ | 100,000 | $\frac{200,000}{102,072,582,143}$ | 15,974,399,999 | $\frac{16,843}{19,968}$ | $\frac{15,974,400,000}{19,968}$ | $\frac{3,125}{19,968}$ | 638,976 |
| 0 | $\frac{63,488,000,000}{100,768,153,601}$ | 99,999 | $\frac{100,767,953,601}{100,768,153,601}$ | 0 | $\frac{63,488,000,000}{100,768,153,599}$ | 100,000 | $\frac{200,000}{100,768,153,599}$ | 15,871,999,999 | $\frac{3,343}{3,968}$ | $\frac{15,872,000,000}{3,968}$ | $\frac{625}{3,968}$ | 634,880 |
| 0 | $\frac{12,615,680,000}{19,894,422,733}$ | 99,999 | $\frac{19,894,382,733}{19,894,422,733}$ | 0 | $\frac{63,078,400,000}{99,472,113,663}$ | 100,000 | $\frac{200,000}{99,472,113,663}$ | 15,769,599,999 | $\frac{16,587}{19,712}$ | $\frac{15,769,600,000}{19,712}$ | $\frac{3,125}{19,712}$ | 630,784 |
| 0 | $\frac{62,668,800,000}{98,184,462,337}$ | 99,999 | $\frac{98,184,262,337}{98,184,462,337}$ | 0 | $\frac{12,533,760,000}{19,636,892,467}$ | 100,000 | $\frac{40,000}{19,636,892,467}$ | 15,667,199,999 | $\frac{16,459}{19,584}$ | $\frac{15,667,200,000}{19,584}$ | $\frac{3,125}{19,584}$ | 626,688 |
| 0 | $\frac{62,259,200,000}{96,905,199,617}$ | 99,999 | $\frac{96,904,999,617}{96,905,199,617}$ | 0 | $\frac{12,451,840,000}{19,381,039,923}$ | 100,000 | $\frac{40,000}{19,381,039,923}$ | 15,564,799,999 | $\frac{16,331}{19,456}$ | $\frac{15,564,800,000}{19,456}$ | $\frac{3,125}{19,456}$ | 622,592 |
| 0 | $\frac{12,369,920,000}{19,126,865,101}$ | 99,999 | $\frac{19,126,825,101}{19,126,865,101}$ | 0 | $\frac{12,369,920,000}{95,634,325,503}$ | 100,000 | $\frac{200,000}{95,634,325,503}$ | 15,462,399,999 | $\frac{16,203}{19,328}$ | $\frac{15,462,400,000}{19,328}$ | $\frac{3,125}{19,328}$ | 618,496 |
| 0 | $\frac{61,440,000,000}{94,371,840,001}$ | 99,999 | $\frac{94,371,640,001}{94,371,840,001}$ | 0 | $\frac{61,440,000,000}{94,371,839,999}$ | 100,000 | $\frac{200,000}{94,371,839,999}$ | 15,359,999,999 | $\frac{643}{768}$ | $\frac{15,360,000,000}{768}$ | $\frac{125}{768}$ | 614,400 |
| 0 | $\frac{12,206,080,000}{18,623,548,621}$ | 99,999 | $\frac{18,623,508,621}{18,623,548,621}$ | 0 | $\frac{61,030,400,000}{93,117,743,103}$ | 100,000 | $\frac{200,000}{93,117,743,103}$ | 15,257,599,999 | $\frac{15,947}{19,072}$ | $\frac{15,257,600,000}{19,072}$ | $\frac{3,125}{19,072}$ | 610,304 |
| 0 | $\frac{60,620,800,000}{91,872,034,817}$ | 99,999 | $\frac{91,871,834,817}{91,872,034,817}$ | 0 | $\frac{12,124,160,000}{18,374,406,963}$ | 100,000 | $\frac{40,000}{18,374,406,963}$ | 15,155,199,999 | $\frac{15,819}{18,944}$ | $\frac{15,155,200,000}{18,944}$ | $\frac{3,125}{18,944}$ | 606,208 |
| 0 | $\frac{60,211,200,000}{90,634,715,137}$ | 99,999 | $\frac{90,634,515,137}{90,634,715,137}$ | 0 | $\frac{12,042,240,000}{18,126,943,027}$ | 100,000 | $\frac{40,000}{18,126,943,027}$ | 15,052,799,999 | $\frac{15,691}{18,816}$ | $\frac{15,052,800,000}{18,816}$ | $\frac{3,125}{18,816}$ | 602,112 |
| 0 | $\frac{11,960,320,000}{17,881,156,813}$ | 99,999 | $\frac{17,881,116,813}{17,881,156,813}$ | 0 | $\frac{59,801,600,000}{89,405,784,063}$ | 100,000 | $\frac{200,000}{89,405,784,063}$ | 14,950,399,999 | $\frac{15,563}{18,688}$ | $\frac{14,950,400,000}{18,688}$ | $\frac{3,125}{18,688}$ | 598,016 |
| 0 | $\frac{59,392,000,000}{88,185,241,601}$ | 99,999 | $\frac{88,185,041,601}{88,185,241,601}$ | 0 | $\frac{59,392,000,000}{88,185,241,599}$ | 100,000 | $\frac{200,000}{88,185,241,599}$ | 14,847,999,999 | $\frac{3,087}{3,712}$ | $\frac{14,848,000,000}{3,712}$ | $\frac{625}{3,712}$ | 593,920 |
| 0 | $\frac{11,796,480,000}{17,394,617,549}$ | 99,999 | $\frac{17,394,577,549}{17,394,617,549}$ | 0 | $\frac{58,982,400,000}{86,973,087,743}$ | 100,000 | $\frac{200,000}{86,973,087,743}$ | 14,745,599,999 | $\frac{15,307}{18,432}$ | $\frac{14,745,600,000}{18,432}$ | $\frac{3,125}{18,432}$ | 589,824 |
| 0 | $\frac{58,572,800,000}{85,769,322,497}$ | 99,999 | $\frac{85,769,122,497}{85,769,322,497}$ | 0 | $\frac{11,714,560,000}{17,153,864,499}$ | 100,000 | $\frac{40,000}{17,153,864,499}$ | 14,643,199,999 | $\frac{15,179}{18,304}$ | $\frac{14,643,200,000}{18,304}$ | $\frac{3,125}{18,304}$ | 585,728 |
| 0 | $\frac{58,163,200,000}{84,573,945,857}$ | 99,999 | $\frac{84,573,745,857}{84,573,945,857}$ | 0 | $\frac{11,632,640,000}{16,914,789,171}$ | 100,000 | $\frac{40,000}{16,914,789,171}$ | 14,540,799,999 | $\frac{15,051}{18,176}$ | $\frac{14,540,800,000}{18,176}$ | $\frac{3,125}{18,176}$ | 581,632 |
| 0 | $\frac{2,310,144,000}{3,335,478,313}$ | 99,999 | $\frac{3,335,470,313}{3,335,478,313}$ | 0 | $\frac{57,753,600,000}{83,386,957,823}$ | 100,000 | $\frac{200,000}{83,386,957,823}$ | 14,438,399,999 | $\frac{14,923}{18,048}$ | $\frac{14,438,400,000}{18,048}$ | $\frac{3,125}{18,048}$ | 577,536 |
| 0 | $\frac{57,344,000,000}{82,208,358,401}$ | 99,999 | $\frac{82,208,158,401}{82,208,358,401}$ | 0 | $\frac{57,344,000,000}{82,208,358,399}$ | 100,000 | $\frac{200,000}{82,208,358,399}$ | 14,335,999,999 | $\frac{2,959}{3,584}$ | $\frac{14,336,000,000}{3,584}$ | $\frac{625}{3,584}$ | 573,440 |
| 0 | $\frac{11,386,880,000}{16,207,629,517}$ | 99,999 | $\frac{16,207,589,517}{16,207,629,517}$ | 0 | $\frac{56,934,400,000}{81,038,147,583}$ | 100,000 | $\frac{200,000}{81,038,147,583}$ | 14,233,599,999 | $\frac{14,667}{17,792}$ | $\frac{14,233,600,000}{17,792}$ | $\frac{3,125}{17,792}$ | 569,344 |
| 0 | $\frac{56,524,800,000}{79,876,325,377}$ | 99,999 | $\frac{79,876,125,377}{79,876,325,377}$ | 0 | $\frac{452,198,400}{639,010,603}$ | 100,000 | $\frac{1,600}{639,010,603}$ | 14,131,199,999 | $\frac{14,539}{17,664}$ | $\frac{14,131,200,000}{17,664}$ | $\frac{3,125}{17,664}$ | 565,248 |
| 0 | $\frac{56,115,200,000}{78,722,891,777}$ | 99,999 | $\frac{78,722,691,777}{78,722,891,777}$ | 0 | $\frac{2,244,608,000}{3,148,915,671}$ | 100,000 | $\frac{8,000}{3,148,915,671}$ | 14,028,799,999 | $\frac{14,411}{17,536}$ | $\frac{14,028,800,000}{17,536}$ | $\frac{3,125}{17,536}$ | 561,152 |
| 0 | $\frac{11,141,120,000}{15,515,569,357}$ | 99,999 | $\frac{15,515,529,357}{15,515,569,357}$ | 0 | $\frac{55,705,600,000}{77,577,846,783}$ | 100,000 | $\frac{200,000}{77,577,846,783}$ | 13,926,399,999 | $\frac{14,283}{17,408}$ | $\frac{13,926,400,000}{17,408}$ | $\frac{3,125}{17,408}$ | 557,056 |
| 0 | $\frac{55,296,000,000}{76,441,190,401}$ | 99,999 | $\frac{76,440,990,401}{76,441,190,401}$ | 0 | $\frac{55,296,000,000}{76,441,190,399}$ | 100,000 | $\frac{200,000}{76,441,190,399}$ | 13,823,999,999 | $\frac{2,831}{3,456}$ | $\frac{13,824,000,000}{3,456}$ | $\frac{625}{3,456}$ | 552,960 |
| <i>Basis</i> 100,000 <i>Hypotenusa</i> | | | <i>Perpendicularum</i> 100,000 <i>Hypotenusa</i> | | | <i>Basis</i> 100,000 <i>Perpendicularum</i> | | | <i>Perpendicularum</i> 100,000 <i>Hypotenusa</i> <i>Basis</i> | | | Numeri primi Baseos |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 6 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|-------------------------|-------------------|------------------------|----------------|-------------------------|--------------|----------------------------------|------------------------|---|------------------------|---|--------------|---|
| | SERIES III. | | SERIES II. | | | SERIES I. | | | | | | |
| 548,864 | 13,721,600,000 | $\frac{3.125}{17,152}$ | 13,721,599,999 | $\frac{14.027}{17,152}$ | 100,000 | $\frac{200,000}{75,312,922,623}$ | 0 | $\frac{54,886,400,000}{75,312,922,623}$ | 99,999 | $\frac{602,501,781}{602,503,381}$ | 0 | $\frac{439,091,200}{602,503,381}$ |
| 544,768 | 13,619,200,000 | $\frac{3.125}{17,024}$ | 13,619,199,999 | $\frac{13,899}{17,024}$ | 100,000 | $\frac{40,000}{14,838,608,691}$ | 0 | $\frac{10,895,360,000}{14,838,608,691}$ | 99,999 | $\frac{74,192,843,457}{74,193,943,457}$ | 0 | $\frac{54,476,800,000}{74,193,943,457}$ |
| 540,672 | 13,516,800,000 | $\frac{3.125}{16,896}$ | 13,516,799,999 | $\frac{13,771}{16,896}$ | 100,000 | $\frac{40,000}{14,616,310,579}$ | 0 | $\frac{10,813,440,000}{14,616,310,579}$ | 99,999 | $\frac{73,081,352,897}{73,081,552,897}$ | 0 | $\frac{54,067,200,000}{73,081,552,897}$ |
| 536,576 | 13,414,400,000 | $\frac{3.125}{16,768}$ | 13,414,399,999 | $\frac{13,643}{16,768}$ | 100,000 | $\frac{200,000}{71,978,450,943}$ | 0 | $\frac{53,657,600,000}{71,978,450,943}$ | 99,999 | $\frac{14,395,650,189}{14,395,690,189}$ | 0 | $\frac{10,731,520,000}{14,395,690,189}$ |
| 532,480 | 13,312,000,000 | $\frac{625}{3,328}$ | 13,311,999,999 | $\frac{2,703}{3,328}$ | 100,000 | $\frac{200,000}{70,883,737,599}$ | 0 | $\frac{53,248,000,000}{70,883,737,599}$ | 99,999 | $\frac{70,883,537,601}{70,883,737,601}$ | 0 | $\frac{53,248,000,000}{70,883,737,601}$ |
| 528,384 | 13,209,600,000 | $\frac{3.125}{16,512}$ | 13,209,599,999 | $\frac{13,387}{16,512}$ | 100,000 | $\frac{200,000}{69,797,412,863}$ | 0 | $\frac{52,838,400,000}{69,797,412,863}$ | 99,999 | $\frac{13,959,442,573}{13,959,482,573}$ | 0 | $\frac{10,567,680,000}{13,959,482,573}$ |
| 524,288 | 13,107,200,000 | $\frac{3.125}{16,384}$ | 13,107,199,999 | $\frac{13,259}{16,384}$ | 100,000 | $\frac{40,000}{13,743,895,347}$ | 0 | $\frac{10,485,760,000}{13,743,895,347}$ | 99,999 | $\frac{68,719,276,737}{68,719,476,737}$ | 0 | $\frac{52,428,800,000}{68,719,476,737}$ |
| 520,192 | 13,004,800,000 | $\frac{3.125}{16,256}$ | 13,004,799,999 | $\frac{13,131}{16,256}$ | 100,000 | $\frac{40,000}{13,529,985,843}$ | 0 | $\frac{10,403,840,000}{13,529,985,843}$ | 99,999 | $\frac{67,649,729,217}{67,649,929,217}$ | 0 | $\frac{52,019,200,000}{67,649,929,217}$ |
| 516,096 | 12,902,400,000 | $\frac{3.125}{16,128}$ | 12,902,399,999 | $\frac{13,003}{16,128}$ | 100,000 | $\frac{200,000}{66,588,770,303}$ | 0 | $\frac{51,609,600,000}{66,588,770,303}$ | 99,999 | $\frac{13,317,714,061}{13,317,754,061}$ | 0 | $\frac{10,321,920,000}{13,317,754,061}$ |
| 512,000 | 12,800,000,000 | $\frac{25}{128}$ | 12,799,999,999 | $\frac{103}{128}$ | 100,000 | $\frac{200,000}{65,535,999,999}$ | 0 | $\frac{51,200,000,000}{65,535,999,999}$ | 99,999 | $\frac{65,535,800,001}{65,536,000,001}$ | 0 | $\frac{51,200,000,000}{65,536,000,001}$ |
| 507,904 | 12,697,600,000 | $\frac{3.125}{15,872}$ | 12,697,599,999 | $\frac{12,747}{15,872}$ | 100,000 | $\frac{200,000}{64,491,618,303}$ | 0 | $\frac{50,790,400,000}{64,491,618,303}$ | 99,999 | $\frac{12,898,283,661}{12,898,323,661}$ | 0 | $\frac{10,158,080,000}{12,898,323,661}$ |
| 503,808 | 12,595,200,000 | $\frac{3.125}{15,744}$ | 12,595,199,999 | $\frac{12,619}{15,744}$ | 100,000 | $\frac{40,000}{12,691,125,043}$ | 0 | $\frac{10,076,160,000}{12,691,125,043}$ | 99,999 | $\frac{63,455,425,217}{63,455,925,217}$ | 0 | $\frac{50,380,800,000}{63,455,925,217}$ |
| 499,712 | 12,492,800,000 | $\frac{3.125}{15,616}$ | 12,492,799,999 | $\frac{12,491}{15,616}$ | 100,000 | $\frac{40,000}{12,485,604,147}$ | 0 | $\frac{9,994,240,000}{12,485,604,147}$ | 99,999 | $\frac{62,427,820,737}{62,428,020,737}$ | 0 | $\frac{49,971,200,000}{62,428,020,737}$ |
| 495,616 | 12,390,400,000 | $\frac{3.125}{15,488}$ | 12,390,399,999 | $\frac{12,363}{15,488}$ | 100,000 | $\frac{200,000}{61,408,804,863}$ | 0 | $\frac{49,561,600,000}{61,408,804,863}$ | 99,999 | $\frac{12,281,720,973}{12,281,760,973}$ | 0 | $\frac{9,912,320,000}{12,281,760,973}$ |
| 491,520 | 12,288,000,000 | $\frac{625}{3,072}$ | 12,287,999,999 | $\frac{2,447}{3,072}$ | 100,000 | $\frac{200,000}{60,397,977,599}$ | 0 | $\frac{49,152,000,000}{60,397,977,599}$ | 99,999 | $\frac{60,397,777,601}{60,397,977,601}$ | 0 | $\frac{49,152,000,000}{60,397,977,601}$ |
| 487,424 | 12,185,600,000 | $\frac{3.125}{15,232}$ | 12,185,599,999 | $\frac{12,107}{15,232}$ | 100,000 | $\frac{200,000}{59,395,538,943}$ | 0 | $\frac{48,742,400,000}{59,395,538,943}$ | 99,999 | $\frac{11,879,067,789}{11,879,107,789}$ | 0 | $\frac{9,748,480,000}{11,879,107,789}$ |
| 483,328 | 12,083,200,000 | $\frac{3.125}{15,104}$ | 12,083,199,999 | $\frac{11,979}{15,104}$ | 100,000 | $\frac{40,000}{11,680,297,779}$ | 0 | $\frac{9,666,560,000}{11,680,297,779}$ | 99,999 | $\frac{58,401,288,897}{58,401,488,897}$ | 0 | $\frac{48,332,800,000}{58,401,488,897}$ |
| 479,232 | 11,980,800,000 | $\frac{3.125}{14,976}$ | 11,980,799,999 | $\frac{11,851}{14,976}$ | 100,000 | $\frac{40,000}{11,483,165,491}$ | 0 | $\frac{9,584,640,000}{11,483,165,491}$ | 99,999 | $\frac{57,415,627,457}{57,415,827,457}$ | 0 | $\frac{47,923,200,000}{57,415,827,457}$ |
| 475,136 | 11,878,400,000 | $\frac{3.125}{14,848}$ | 11,878,399,999 | $\frac{11,723}{14,848}$ | 100,000 | $\frac{200,000}{56,438,554,623}$ | 0 | $\frac{47,513,600,000}{56,438,554,623}$ | 99,999 | $\frac{451,506,837}{451,508,437}$ | 0 | $\frac{380,108,800}{451,508,437}$ |
| 471,040 | 11,776,000,000 | $\frac{625}{2,944}$ | 11,775,999,999 | $\frac{2,319}{2,944}$ | 100,000 | $\frac{200,000}{55,469,670,399}$ | 0 | $\frac{47,104,000,000}{55,469,670,399}$ | 99,999 | $\frac{55,469,470,401}{55,469,670,401}$ | 0 | $\frac{47,104,000,000}{55,469,670,401}$ |
| 466,944 | 11,673,600,000 | $\frac{3.125}{14,592}$ | 11,673,599,999 | $\frac{11,467}{14,592}$ | 100,000 | $\frac{200,000}{54,509,174,783}$ | 0 | $\frac{46,694,400,000}{54,509,174,783}$ | 99,999 | $\frac{10,901,794,957}{10,901,834,957}$ | 0 | $\frac{9,338,880,000}{10,901,834,957}$ |
| 462,848 | 11,571,200,000 | $\frac{3.125}{14,464}$ | 11,571,199,999 | $\frac{11,339}{14,464}$ | 100,000 | $\frac{8,000}{2,142,282,711}$ | 0 | $\frac{1,851,392,000}{2,142,282,711}$ | 99,999 | $\frac{53,556,867,777}{53,557,067,777}$ | 0 | $\frac{46,284,800,000}{53,557,067,777}$ |
| 458,752 | 11,468,800,000 | $\frac{3.125}{14,336}$ | 11,468,799,999 | $\frac{11,211}{14,336}$ | 100,000 | $\frac{320}{84,181,359}$ | 0 | $\frac{73,400,320}{84,181,359}$ | 99,999 | $\frac{52,613,149,377}{52,613,349,377}$ | 0 | $\frac{45,875,200,000}{52,613,349,377}$ |
| 454,656 | 11,366,400,000 | $\frac{3.125}{14,208}$ | 11,366,399,999 | $\frac{11,083}{14,208}$ | 100,000 | $\frac{200,000}{51,678,019,583}$ | 0 | $\frac{45,465,600,000}{51,678,019,583}$ | 99,999 | $\frac{10,335,563,917}{10,335,603,917}$ | 0 | $\frac{9,093,120,000}{10,335,603,917}$ |
| 450,560 | 11,264,000,000 | $\frac{625}{2,816}$ | 11,263,999,999 | $\frac{2,191}{2,816}$ | 100,000 | $\frac{200,000}{50,751,078,399}$ | 0 | $\frac{45,056,000,000}{50,751,078,399}$ | 99,999 | $\frac{50,750,878,401}{50,751,078,401}$ | 0 | $\frac{45,056,000,000}{50,751,078,401}$ |
| 446,464 | 11,161,600,000 | $\frac{3.125}{13,952}$ | 11,161,599,999 | $\frac{10,827}{13,952}$ | 100,000 | $\frac{200,000}{49,832,525,823}$ | 0 | $\frac{44,646,400,000}{49,832,525,823}$ | 99,999 | $\frac{1,993,293,033}{1,993,301,033}$ | 0 | $\frac{1,785,856,000}{1,993,301,033}$ |
| 442,368 | 11,059,200,000 | $\frac{3.125}{13,824}$ | 11,059,199,999 | $\frac{10,699}{13,824}$ | 100,000 | $\frac{40,000}{9,784,472,371}$ | 0 | $\frac{8,847,360,000}{9,784,472,371}$ | 99,999 | $\frac{48,922,161,857}{48,922,361,857}$ | 0 | $\frac{44,236,800,000}{48,922,361,857}$ |
| 438,272 | 10,956,800,000 | $\frac{3.125}{13,696}$ | 10,956,799,999 | $\frac{10,571}{13,696}$ | 100,000 | $\frac{40,000}{9,604,117,299}$ | 0 | $\frac{8,765,440,000}{9,604,117,299}$ | 99,999 | $\frac{48,020,386,497}{48,020,586,497}$ | 0 | $\frac{43,827,200,000}{48,020,586,497}$ |
| 434,176 | 10,854,400,000 | $\frac{3.125}{13,568}$ | 10,854,399,999 | $\frac{10,443}{13,568}$ | 100,000 | $\frac{200,000}{47,127,199,743}$ | 0 | $\frac{43,417,600,000}{47,127,199,743}$ | 99,999 | $\frac{9,425,399,949}{9,425,439,949}$ | 0 | $\frac{8,683,520,000}{9,425,439,949}$ |
| 430,080 | 10,752,000,000 | $\frac{625}{2,688}$ | 10,751,999,999 | $\frac{2,063}{2,688}$ | 100,000 | $\frac{200,000}{46,242,201,599}$ | 0 | $\frac{43,008,000,000}{46,242,201,599}$ | 99,999 | $\frac{46,242,001,601}{46,242,201,601}$ | 0 | $\frac{43,008,000,000}{46,242,201,601}$ |
| 425,984 | 10,649,600,000 | $\frac{3.125}{13,312}$ | 10,649,599,999 | $\frac{10,187}{13,312}$ | 100,000 | $\frac{200,000}{45,365,592,063}$ | 0 | $\frac{42,598,400,000}{45,365,592,063}$ | 99,999 | $\frac{9,073,978,413}{9,073,118,413}$ | 0 | $\frac{8,519,680,000}{9,073,118,413}$ |
| 421,888 | 10,547,200,000 | $\frac{3.125}{13,184}$ | 10,547,199,999 | $\frac{10,059}{13,184}$ | 100,000 | $\frac{40,000}{8,899,474,227}$ | 0 | $\frac{8,437,600,000}{8,899,474,227}$ | 99,999 | $\frac{44,497,171,137}{44,497,371,137}$ | 0 | $\frac{42,188,800,000}{44,497,371,137}$ |
| 417,792 | 10,444,800,000 | $\frac{3.125}{13,056}$ | 10,444,799,999 | $\frac{9,931}{13,056}$ | 100,000 | $\frac{40,000}{8,727,507,763}$ | 0 | $\frac{8,355,840,000}{8,727,507,763}$ | 99,999 | $\frac{43,637,338,817}{43,637,538,817}$ | 0 | $\frac{41,779,200,000}{43,637,538,817}$ |
| 413,696 | 10,342,400,000 | $\frac{3.125}{12,928}$ | 10,342,399,999 | $\frac{9,803}{12,928}$ | 100,000 | $\frac{200,000}{42,786,095,103}$ | 0 | $\frac{41,369,600,000}{42,786,095,103}$ | 99,999 | $\frac{8,557,179,021}{8,557,219,021}$ | 0 | $\frac{8,273,920,000}{8,557,219,021}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | <i>Perpendicularum</i> | 100,000 | <i>Hypotenusa</i> | <i>Basis</i> | 100,000 | <i>Perpendicularum</i> | 100,000 | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Basis</i> |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | 7 | | |
|---------------------|---|-----------------|---|---------|---|-----------------|----------------------------------|-----------------|------------------------|------------------------|---------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 0 | $\frac{40,960,000,000}{41,943,040,001}$ | 99,999 | $\frac{41,942,840,001}{41,943,040,001}$ | 0 | $\frac{40,960,000,000}{41,943,039,999}$ | 100,000 | $\frac{200,000}{41,943,039,999}$ | 10,239,999,999 | $\frac{387}{512}$ | $\frac{125}{512}$ | 409,600 | |
| 0 | $\frac{40,755,200,000}{41,524,658,177}$ | 99,999 | $\frac{41,524,458,177}{41,524,658,177}$ | 0 | $\frac{1,630,208,000}{1,660,986,327}$ | 100,000 | $\frac{8,000}{1,660,986,327}$ | 10,188,799,999 | $\frac{9,611}{12,736}$ | $\frac{3,125}{12,736}$ | 407,552 | |
| 0 | $\frac{8,110,080,000}{8,221,674,701}$ | 99,999 | $\frac{8,221,634,701}{8,221,674,701}$ | 0 | $\frac{40,550,400,000}{41,108,373,503}$ | 100,000 | $\frac{200,000}{41,108,373,503}$ | 10,137,599,999 | $\frac{9,547}{12,672}$ | $\frac{3,125}{12,672}$ | 405,504 | |
| 0 | $\frac{8,069,120,000}{8,138,837,197}$ | 99,999 | $\frac{8,138,797,197}{8,138,837,197}$ | 0 | $\frac{40,345,600,000}{40,694,185,983}$ | 100,000 | $\frac{200,000}{40,694,185,983}$ | 10,086,399,999 | $\frac{9,483}{12,608}$ | $\frac{3,125}{12,608}$ | 403,456 | |
| 0 | $\frac{40,140,800,000}{40,282,095,617}$ | 99,999 | $\frac{40,281,895,617}{40,282,095,617}$ | 0 | $\frac{8,028,160,000}{8,056,419,123}$ | 100,000 | $\frac{40,000}{8,056,419,123}$ | 10,035,199,999 | $\frac{9,419}{12,544}$ | $\frac{3,125}{12,544}$ | 401,408 | |
| 1 | $\frac{63,897,599}{39,872,102,401}$ | 99,999 | $\frac{39,871,902,401}{39,872,102,401}$ | 1 | $\frac{63,897,601}{39,872,102,399}$ | 100,000 | $\frac{200,000}{39,872,102,399}$ | 9,983,999,999 | $\frac{1,871}{2,496}$ | $\frac{625}{2,496}$ | 399,360 | |
| 1 | $\frac{266,993,663}{39,464,206,337}$ | 99,999 | $\frac{39,464,006,337}{39,464,206,337}$ | 1 | $\frac{53,398,733}{7,892,841,267}$ | 100,000 | $\frac{40,000}{7,892,841,267}$ | 9,932,799,999 | $\frac{9,291}{12,416}$ | $\frac{3,125}{12,416}$ | 397,312 | |
| 1 | $\frac{18,719,703}{1,562,336,297}$ | 99,999 | $\frac{1,562,328,297}{1,562,336,297}$ | 1 | $\frac{467,992,577}{39,058,407,423}$ | 100,000 | $\frac{200,000}{39,058,407,423}$ | 9,881,599,999 | $\frac{9,227}{12,352}$ | $\frac{3,125}{12,352}$ | 395,264 | |
| 1 | $\frac{133,378,867}{7,739,941,133}$ | 99,999 | $\frac{7,739,901,133}{7,739,941,133}$ | 1 | $\frac{666,894,337}{38,654,705,663}$ | 100,000 | $\frac{200,000}{38,654,705,663}$ | 9,830,399,999 | $\frac{9,163}{12,288}$ | $\frac{3,125}{12,288}$ | 393,216 | |
| 1 | $\frac{863,698,943}{38,253,101,057}$ | 99,999 | $\frac{38,252,901,057}{38,253,101,057}$ | 1 | $\frac{172,739,789}{7,650,620,211}$ | 100,000 | $\frac{40,000}{7,650,620,211}$ | 9,779,199,999 | $\frac{9,099}{12,224}$ | $\frac{3,125}{12,224}$ | 391,168 | |
| 1 | $\frac{1,058,406,399}{37,853,593,601}$ | 99,999 | $\frac{37,853,393,601}{37,853,593,601}$ | 1 | $\frac{1,058,406,401}{37,853,593,599}$ | 100,000 | $\frac{200,000}{37,853,593,599}$ | 9,727,999,999 | $\frac{1,807}{2,432}$ | $\frac{625}{2,432}$ | 389,120 | |
| 1 | $\frac{1,251,016,703}{37,456,183,297}$ | 99,999 | $\frac{37,455,983,297}{37,456,183,297}$ | 1 | $\frac{250,203,341}{7,491,236,659}$ | 100,000 | $\frac{40,000}{7,491,236,659}$ | 9,676,799,999 | $\frac{8,971}{12,096}$ | $\frac{3,125}{12,096}$ | 387,072 | |
| 1 | $\frac{288,305,971}{7,412,174,029}$ | 99,999 | $\frac{7,412,134,029}{7,412,174,029}$ | 1 | $\frac{1,441,529,857}{37,060,870,143}$ | 100,000 | $\frac{200,000}{37,060,870,143}$ | 9,625,599,999 | $\frac{8,907}{12,032}$ | $\frac{3,125}{12,032}$ | 385,024 | |
| 1 | $\frac{325,989,171}{7,333,530,829}$ | 99,999 | $\frac{7,333,490,829}{7,333,530,829}$ | 1 | $\frac{1,629,945,857}{36,667,654,143}$ | 100,000 | $\frac{200,000}{36,667,654,143}$ | 9,574,399,999 | $\frac{8,843}{11,968}$ | $\frac{3,125}{11,968}$ | 382,976 | |
| 1 | $\frac{1,816,264,703}{36,276,535,297}$ | 99,999 | $\frac{36,276,335,297}{36,276,535,297}$ | 1 | $\frac{363,252,941}{7,255,397,059}$ | 100,000 | $\frac{40,000}{7,255,397,059}$ | 9,523,199,999 | $\frac{8,779}{11,904}$ | $\frac{3,125}{11,904}$ | 380,928 | |
| 1 | $\frac{2,000,486,399}{35,887,513,601}$ | 99,999 | $\frac{35,887,313,601}{35,887,513,601}$ | 1 | $\frac{2,000,486,401}{35,887,513,599}$ | 100,000 | $\frac{200,000}{35,887,513,599}$ | 9,471,999,999 | $\frac{1,743}{2,368}$ | $\frac{625}{2,368}$ | 378,880 | |
| 1 | $\frac{2,182,610,943}{35,500,589,057}$ | 99,999 | $\frac{35,500,389,057}{35,500,589,057}$ | 1 | $\frac{436,522,189}{7,100,117,811}$ | 100,000 | $\frac{40,000}{7,100,117,811}$ | 9,420,799,999 | $\frac{8,651}{11,776}$ | $\frac{3,125}{11,776}$ | 376,832 | |
| 1 | $\frac{472,527,667}{7,023,152,333}$ | 99,999 | $\frac{7,023,112,333}{7,023,152,333}$ | 1 | $\frac{2,362,638,337}{35,115,761,663}$ | 100,000 | $\frac{200,000}{35,115,761,663}$ | 9,369,599,999 | $\frac{8,587}{11,712}$ | $\frac{3,125}{11,712}$ | 374,784 | |
| 1 | $\frac{101,622,743}{1,389,321,257}$ | 99,999 | $\frac{1,389,313,257}{1,389,321,257}$ | 1 | $\frac{2,540,568,577}{34,733,031,423}$ | 100,000 | $\frac{200,000}{34,733,031,423}$ | 9,318,399,999 | $\frac{8,523}{11,648}$ | $\frac{3,125}{11,648}$ | 372,736 | |
| 1 | $\frac{2,716,401,663}{34,352,398,337}$ | 99,999 | $\frac{34,352,198,337}{34,352,398,337}$ | 1 | $\frac{543,280,333}{6,870,479,667}$ | 100,000 | $\frac{40,000}{6,870,479,667}$ | 9,267,199,999 | $\frac{8,459}{11,584}$ | $\frac{3,125}{11,584}$ | 370,688 | |
| 1 | $\frac{2,890,137,599}{33,973,862,401}$ | 99,999 | $\frac{33,973,662,401}{33,973,862,401}$ | 1 | $\frac{2,890,137,601}{33,973,862,399}$ | 100,000 | $\frac{200,000}{33,973,862,399}$ | 9,215,999,999 | $\frac{1,679}{2,304}$ | $\frac{625}{2,304}$ | 368,640 | |
| 1 | $\frac{3,061,776,383}{33,597,423,617}$ | 99,999 | $\frac{33,597,223,617}{33,597,423,617}$ | 1 | $\frac{612,355,277}{6,719,484,723}$ | 100,000 | $\frac{40,000}{6,719,484,723}$ | 9,164,799,999 | $\frac{8,331}{11,456}$ | $\frac{3,125}{11,456}$ | 366,592 | |
| 1 | $\frac{646,263,603}{6,644,616,397}$ | 99,999 | $\frac{6,644,576,397}{6,644,616,397}$ | 1 | $\frac{3,231,318,017}{33,223,081,983}$ | 100,000 | $\frac{200,000}{33,223,081,983}$ | 9,113,599,999 | $\frac{8,267}{11,392}$ | $\frac{3,125}{11,392}$ | 364,544 | |
| 1 | $\frac{679,752,499}{6,570,167,501}$ | 99,999 | $\frac{6,570,127,501}{6,570,167,501}$ | 1 | $\frac{3,398,762,497}{32,850,837,503}$ | 100,000 | $\frac{200,000}{32,850,837,503}$ | 9,062,399,999 | $\frac{8,203}{11,328}$ | $\frac{3,125}{11,328}$ | 362,496 | |
| 1 | $\frac{3,564,109,823}{32,480,690,177}$ | 99,999 | $\frac{32,480,490,177}{32,480,690,177}$ | 1 | $\frac{142,564,393}{1,299,227,607}$ | 100,000 | $\frac{8,000}{1,299,227,607}$ | 9,011,199,999 | $\frac{8,139}{11,264}$ | $\frac{3,125}{11,264}$ | 360,448 | |
| 1 | $\frac{3,727,359,999}{32,112,640,001}$ | 99,999 | $\frac{32,112,440,001}{32,112,640,001}$ | 1 | $\frac{3,727,360,001}{32,112,639,999}$ | 100,000 | $\frac{200,000}{32,112,639,999}$ | 8,959,999,999 | $\frac{323}{448}$ | $\frac{125}{448}$ | 358,400 | |
| 1 | $\frac{3,888,513,023}{31,746,686,977}$ | 99,999 | $\frac{31,746,486,977}{31,746,686,977}$ | 1 | $\frac{155,540,521}{1,269,867,479}$ | 100,000 | $\frac{8,000}{1,269,867,479}$ | 8,908,799,999 | $\frac{8,011}{11,136}$ | $\frac{3,125}{11,136}$ | 356,352 | |
| 1 | $\frac{809,513,779}{6,276,566,221}$ | 99,999 | $\frac{6,276,526,221}{6,276,566,221}$ | 1 | $\frac{4,047,568,897}{31,382,831,103}$ | 100,000 | $\frac{200,000}{31,382,831,103}$ | 8,857,599,999 | $\frac{7,947}{11,072}$ | $\frac{3,125}{11,072}$ | 354,304 | |
| 1 | $\frac{840,905,523}{6,204,214,477}$ | 99,999 | $\frac{6,204,174,477}{6,204,214,477}$ | 1 | $\frac{4,204,527,617}{31,021,072,383}$ | 100,000 | $\frac{200,000}{31,021,072,383}$ | 8,806,399,999 | $\frac{7,883}{11,008}$ | $\frac{3,125}{11,008}$ | 352,256 | |
| 1 | $\frac{4,359,389,183}{30,661,410,817}$ | 99,999 | $\frac{30,661,210,817}{30,661,410,817}$ | 1 | $\frac{871,877,837}{6,132,282,163}$ | 100,000 | $\frac{40,000}{6,132,282,163}$ | 8,755,199,999 | $\frac{7,819}{10,944}$ | $\frac{3,125}{10,944}$ | 350,208 | |
| 1 | $\frac{4,512,153,599}{30,303,846,401}$ | 99,999 | $\frac{30,303,646,401}{30,303,846,401}$ | 1 | $\frac{4,512,153,601}{30,303,846,399}$ | 100,000 | $\frac{200,000}{30,303,846,399}$ | 8,703,999,999 | $\frac{1,551}{2,176}$ | $\frac{625}{2,176}$ | 348,160 | |
| 1 | $\frac{4,662,820,863}{29,948,379,137}$ | 99,999 | $\frac{29,948,179,137}{29,948,379,137}$ | 1 | $\frac{932,564,173}{5,989,675,827}$ | 100,000 | $\frac{40,000}{5,989,675,827}$ | 8,652,799,999 | $\frac{7,691}{10,816}$ | $\frac{3,125}{10,816}$ | 346,112 | |
| Basis | | Perpendicularum | | Basis | | Hypotenusa | | Perpendicularum | | Hypotenusa | | Numeri primi Baseos |
| 100,000 | | Hypotenusa | | 100,000 | | Perpendicularum | | 100,000 | | Hypotenusa | | |
| | | | | | | | | Basis | | | | |

Vietè's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | | 9 |
|-----------------------|--|--------|---|---|--|------------------|----------------------------------|---------------|-----------------------|---------------|-----------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 1 | $\frac{8,614,969,343}{18,828,230,657}$ | 99,999 | $\frac{18,828,030,657}{18,828,230,657}$ | 1 | $\frac{1,722,993,869}{3,765,646,131}$ | 100,000 | $\frac{40,000}{3,765,646,131}$ | 6,860,799,999 | $\frac{5,451}{8,576}$ | 6,860,800,000 | $\frac{3,125}{8,576}$ | 274,432 |
| 1 | $\frac{1,738,027,827}{3,709,652,173}$ | 99,999 | $\frac{3,709,612,173}{3,709,652,173}$ | 1 | $\frac{8,690,139,137}{18,548,260,863}$ | 100,000 | $\frac{200,000}{18,548,260,863}$ | 6,809,599,999 | $\frac{5,387}{8,512}$ | 6,809,600,000 | $\frac{3,125}{8,512}$ | 272,384 |
| 1 | $\frac{359,528,471}{730,815,529}$ | 99,999 | $\frac{730,807,529}{730,815,529}$ | 1 | $\frac{8,763,211,777}{18,270,388,223}$ | 100,000 | $\frac{200,000}{18,270,388,223}$ | 6,758,399,999 | $\frac{5,323}{8,448}$ | 6,758,400,000 | $\frac{3,125}{8,448}$ | 270,336 |
| 1 | $\frac{8,834,187,263}{17,994,612,737}$ | 99,999 | $\frac{17,994,412,737}{17,994,612,737}$ | 1 | $\frac{1,766,837,453}{3,598,922,547}$ | 100,000 | $\frac{40,000}{3,598,922,547}$ | 6,707,199,999 | $\frac{5,259}{8,384}$ | 6,707,200,000 | $\frac{3,125}{8,384}$ | 268,288 |
| 1 | $\frac{8,903,065,599}{17,720,934,401}$ | 99,999 | $\frac{17,720,734,401}{17,720,934,401}$ | 1 | $\frac{8,903,065,601}{17,720,934,399}$ | 100,000 | $\frac{200,000}{17,720,934,399}$ | 6,655,999,999 | $\frac{1,039}{1,664}$ | 6,656,000,000 | $\frac{625}{1,664}$ | 266,240 |
| 1 | $\frac{8,969,846,783}{17,449,353,217}$ | 99,999 | $\frac{17,449,153,217}{17,449,353,217}$ | 1 | $\frac{1,793,969,357}{3,489,870,643}$ | 100,000 | $\frac{40,000}{3,489,870,643}$ | 6,604,799,999 | $\frac{5,131}{8,256}$ | 6,604,800,000 | $\frac{3,125}{8,256}$ | 264,192 |
| 1 | $\frac{1,806,906,163}{3,435,973,837}$ | 99,999 | $\frac{3,435,933,837}{3,435,973,837}$ | 1 | $\frac{9,034,530,817}{17,179,869,183}$ | 100,000 | $\frac{200,000}{17,179,869,183}$ | 6,553,599,999 | $\frac{5,067}{8,192}$ | 6,553,600,000 | $\frac{3,125}{8,192}$ | 262,144 |
| 1 | $\frac{1,819,423,539}{3,382,496,461}$ | 99,999 | $\frac{3,382,456,461}{3,382,496,461}$ | 1 | $\frac{9,097,117,697}{16,912,482,303}$ | 100,000 | $\frac{200,000}{16,912,482,303}$ | 6,502,399,999 | $\frac{5,003}{8,128}$ | 6,502,400,000 | $\frac{3,125}{8,128}$ | 260,096 |
| 1 | $\frac{9,157,607,423}{16,647,192,577}$ | 99,999 | $\frac{16,646,092,577}{16,647,192,577}$ | 1 | $\frac{366,304,297}{665,887,703}$ | 100,000 | $\frac{8,000}{665,887,703}$ | 6,451,199,999 | $\frac{4,939}{8,064}$ | 6,451,200,000 | $\frac{3,125}{8,064}$ | 258,048 |
| 1 | $\frac{9,215,999,999}{16,384,000,001}$ | 99,999 | $\frac{16,383,800,001}{16,384,000,001}$ | 1 | $\frac{9,216,000,001}{16,383,999,999}$ | 100,000 | $\frac{200,000}{16,383,999,999}$ | 6,399,999,999 | $\frac{39}{64}$ | 6,400,000,000 | $\frac{25}{64}$ | 256,000 |
| 1 | $\frac{9,272,295,423}{16,122,904,577}$ | 99,999 | $\frac{16,122,704,577}{16,122,904,577}$ | 1 | $\frac{370,891,817}{644,916,183}$ | 100,000 | $\frac{8,000}{644,916,183}$ | 6,348,799,999 | $\frac{4,811}{7,936}$ | 6,348,800,000 | $\frac{3,125}{7,936}$ | 253,952 |
| 1 | $\frac{1,865,298,739}{3,172,781,261}$ | 99,999 | $\frac{3,172,741,261}{3,172,781,261}$ | 1 | $\frac{9,326,493,697}{15,863,906,303}$ | 100,000 | $\frac{200,000}{15,863,906,303}$ | 6,297,599,999 | $\frac{4,747}{7,872}$ | 6,297,600,000 | $\frac{3,125}{7,872}$ | 251,904 |
| 1 | $\frac{1,875,718,963}{3,121,401,037}$ | 99,999 | $\frac{3,121,361,037}{3,121,401,037}$ | 1 | $\frac{9,378,594,817}{15,607,005,183}$ | 100,000 | $\frac{200,000}{15,607,005,183}$ | 6,246,399,999 | $\frac{4,683}{7,808}$ | 6,246,400,000 | $\frac{3,125}{7,808}$ | 249,856 |
| 1 | $\frac{9,428,598,783}{15,352,201,217}$ | 99,999 | $\frac{15,352,001,217}{15,352,201,217}$ | 1 | $\frac{1,885,719,757}{3,070,440,243}$ | 100,000 | $\frac{40,000}{3,070,440,243}$ | 6,195,199,999 | $\frac{4,619}{7,744}$ | 6,195,200,000 | $\frac{3,125}{7,744}$ | 247,808 |
| 1 | $\frac{9,476,505,599}{15,099,494,401}$ | 99,999 | $\frac{15,099,294,401}{15,099,494,401}$ | 1 | $\frac{9,476,505,601}{15,099,494,399}$ | 100,000 | $\frac{200,000}{15,099,494,399}$ | 6,143,999,999 | $\frac{911}{1,536}$ | 6,144,000,000 | $\frac{625}{1,536}$ | 245,760 |
| 1 | $\frac{9,522,315,263}{14,848,884,737}$ | 99,999 | $\frac{14,848,684,737}{14,848,884,737}$ | 1 | $\frac{1,904,463,053}{2,969,776,947}$ | 100,000 | $\frac{40,000}{2,969,776,947}$ | 6,092,799,999 | $\frac{4,491}{7,616}$ | 6,092,800,000 | $\frac{3,125}{7,616}$ | 243,712 |
| 1 | $\frac{382,641,111}{584,014,889}$ | 99,999 | $\frac{584,006,889}{584,014,889}$ | 1 | $\frac{9,566,027,777}{14,600,372,223}$ | 100,000 | $\frac{200,000}{14,600,372,223}$ | 6,041,599,999 | $\frac{4,427}{7,552}$ | 6,041,600,000 | $\frac{3,125}{7,552}$ | 241,664 |
| 1 | $\frac{1,921,528,627}{2,879,791,373}$ | 99,999 | $\frac{2,879,751,373}{2,879,791,373}$ | 1 | $\frac{9,607,643,137}{14,353,956,863}$ | 100,000 | $\frac{200,000}{14,353,956,863}$ | 5,990,399,999 | $\frac{4,363}{7,488}$ | 5,990,400,000 | $\frac{3,125}{7,488}$ | 239,616 |
| 1 | $\frac{9,647,161,343}{14,109,638,657}$ | 99,999 | $\frac{14,109,438,657}{14,109,638,657}$ | 1 | $\frac{1,929,432,269}{2,821,927,731}$ | 100,000 | $\frac{40,000}{2,821,927,731}$ | 5,939,199,999 | $\frac{4,299}{7,424}$ | 5,939,200,000 | $\frac{3,125}{7,424}$ | 237,568 |
| 1 | $\frac{9,684,582,399}{13,867,417,601}$ | 99,999 | $\frac{13,867,217,601}{13,867,417,601}$ | 1 | $\frac{9,684,582,401}{13,867,417,599}$ | 100,000 | $\frac{200,000}{13,867,417,599}$ | 5,887,999,999 | $\frac{847}{1,472}$ | 5,888,000,000 | $\frac{625}{1,472}$ | 235,520 |
| 1 | $\frac{9,719,906,393}{13,627,293,697}$ | 99,999 | $\frac{13,627,093,697}{13,627,293,697}$ | 1 | $\frac{1,943,981,261}{2,725,458,739}$ | 100,000 | $\frac{40,000}{2,725,458,739}$ | 5,836,799,999 | $\frac{4,171}{7,296}$ | 5,836,800,000 | $\frac{3,125}{7,296}$ | 233,472 |
| 1 | $\frac{1,950,626,611}{2,677,853,389}$ | 99,999 | $\frac{2,677,813,389}{2,677,853,389}$ | 1 | $\frac{9,753,133,057}{13,389,266,943}$ | 100,000 | $\frac{200,000}{13,389,266,943}$ | 5,785,599,999 | $\frac{4,107}{7,232}$ | 5,785,600,000 | $\frac{3,125}{7,232}$ | 231,424 |
| 1 | $\frac{1,956,852,531}{2,630,667,469}$ | 99,999 | $\frac{2,630,627,469}{2,630,667,469}$ | 1 | $\frac{9,784,262,657}{13,153,337,343}$ | 100,000 | $\frac{200,000}{13,153,337,343}$ | 5,734,399,999 | $\frac{4,043}{7,168}$ | 5,734,400,000 | $\frac{3,125}{7,168}$ | 229,376 |
| 1 | $\frac{9,813,295,103}{12,919,504,897}$ | 99,999 | $\frac{12,919,304,897}{12,919,504,897}$ | 1 | $\frac{1,962,659,021}{2,583,900,979}$ | 100,000 | $\frac{40,000}{2,583,900,979}$ | 5,683,199,999 | $\frac{3,979}{7,104}$ | 5,683,200,000 | $\frac{3,125}{7,104}$ | 227,328 |
| 1 | $\frac{9,840,230,399}{12,687,769,601}$ | 99,999 | $\frac{12,687,569,601}{12,687,769,601}$ | 1 | $\frac{9,840,230,401}{12,687,769,599}$ | 100,000 | $\frac{200,000}{12,687,769,599}$ | 5,631,999,999 | $\frac{783}{1,408}$ | 5,632,000,000 | $\frac{625}{1,408}$ | 225,280 |
| 1 | $\frac{9,865,068,543}{12,458,131,457}$ | 99,999 | $\frac{12,457,931,457}{12,458,131,457}$ | 1 | $\frac{1,973,013,709}{2,491,626,291}$ | 100,000 | $\frac{40,000}{2,491,626,291}$ | 5,580,799,999 | $\frac{3,851}{6,976}$ | 5,580,800,000 | $\frac{3,125}{6,976}$ | 223,232 |
| 1 | $\frac{1,977,561,907}{2,446,118,093}$ | 99,999 | $\frac{2,446,078,093}{2,446,118,093}$ | 1 | $\frac{9,887,809,537}{12,230,590,463}$ | 100,000 | $\frac{200,000}{12,230,590,463}$ | 5,529,599,999 | $\frac{3,787}{6,912}$ | 5,529,600,000 | $\frac{3,125}{6,912}$ | 221,184 |
| 1 | $\frac{79,267,627}{96,041,173}$ | 99,999 | $\frac{96,039,573}{96,041,173}$ | 1 | $\frac{9,908,453,377}{12,005,146,623}$ | 100,000 | $\frac{200,000}{12,005,146,623}$ | 5,478,399,999 | $\frac{3,723}{6,848}$ | 5,478,400,000 | $\frac{3,125}{6,848}$ | 219,136 |
| 1 | $\frac{9,927,000,063}{11,781,799,937}$ | 99,999 | $\frac{11,781,599,937}{11,781,799,937}$ | 1 | $\frac{1,985,400,013}{2,356,359,987}$ | 100,000 | $\frac{40,000}{2,356,359,987}$ | 5,427,199,999 | $\frac{3,659}{6,784}$ | 5,427,200,000 | $\frac{3,125}{6,784}$ | 217,088 |
| 1 | $\frac{9,943,449,599}{11,560,550,401}$ | 99,999 | $\frac{11,560,350,401}{11,560,550,401}$ | 1 | $\frac{9,943,449,601}{11,560,550,399}$ | 100,000 | $\frac{200,000}{11,560,550,399}$ | 5,375,999,999 | $\frac{719}{1,344}$ | 5,376,000,000 | $\frac{625}{1,344}$ | 215,040 |
| 1 | $\frac{9,957,801,983}{11,341,398,017}$ | 99,999 | $\frac{11,341,198,017}{11,341,398,017}$ | 1 | $\frac{1,991,560,397}{2,268,279,603}$ | 100,000 | $\frac{40,000}{2,268,279,603}$ | 5,324,799,999 | $\frac{3,531}{6,656}$ | 5,324,800,000 | $\frac{3,125}{6,656}$ | 212,992 |
| 1 | $\frac{1,994,011,443}{2,224,868,557}$ | 99,999 | $\frac{2,224,828,557}{2,224,868,557}$ | 1 | $\frac{9,970,057,217}{11,124,342,783}$ | 100,000 | $\frac{200,000}{11,124,342,783}$ | 5,273,599,999 | $\frac{3,467}{6,592}$ | 5,273,600,000 | $\frac{3,125}{6,592}$ | 210,944 |
| 1 | $\frac{1,996,043,059}{2,181,876,941}$ | 99,999 | $\frac{2,181,836,941}{2,181,876,941}$ | 1 | $\frac{9,980,215,297}{10,909,384,703}$ | 100,000 | $\frac{200,000}{10,909,384,703}$ | 5,222,399,999 | $\frac{3,403}{6,528}$ | 5,222,400,000 | $\frac{3,125}{6,528}$ | 208,896 |
| 1 | $\frac{9,988,276,223}{10,696,523,777}$ | 99,999 | $\frac{10,696,323,777}{10,696,523,777}$ | 1 | $\frac{399,531,049}{427,860,951}$ | 100,000 | $\frac{8,000}{427,860,951}$ | 5,171,199,999 | $\frac{3,339}{6,464}$ | 5,171,200,000 | $\frac{3,125}{6,464}$ | 206,848 |
| <i>Basis</i> | | | <i>Perpendicularum</i> | | | <i>Basis</i> | | | <i>Hypotenusa</i> | | | Numeri primi Baseos |
| 100,000 Hypotenusa | | | 100,000 Perpendicularum | | | 100,000 Basis | | | Hypotenusa | | | |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 11 | |
|-----------------------|---------------------------------------|--------|---------------------------------------|---|---------------------------------------|------------------|---------------------------------|---------------|-----------------------|---------------|-----------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 2 | $\frac{2,405,695,486}{7,398,752,257}$ | 99,999 | $\frac{7,398,552,257}{7,398,752,257}$ | 2 | $\frac{481,139,098}{1,479,750,451}$ | 100,000 | $\frac{40,000}{1,479,750,451}$ | 4,300,799,999 | $\frac{2,251}{5,376}$ | 4,300,800,000 | $\frac{3,125}{5,376}$ | 172,032 |
| 2 | $\frac{2,478,931,966}{7,310,934,017}$ | 99,999 | $\frac{7,310,734,017}{7,310,934,017}$ | 2 | $\frac{495,786,394}{1,462,186,803}$ | 100,000 | $\frac{40,000}{1,462,186,803}$ | 4,275,199,999 | $\frac{2,219}{5,344}$ | 4,275,200,000 | $\frac{3,125}{5,344}$ | 171,008 |
| 2 | $\frac{510,223,974}{1,444,728,013}$ | 99,999 | $\frac{1,444,688,013}{1,444,728,013}$ | 2 | $\frac{2,551,119,874}{7,223,640,063}$ | 100,000 | $\frac{200,000}{7,223,640,063}$ | 4,249,599,999 | $\frac{2,187}{5,312}$ | 4,249,600,000 | $\frac{3,125}{5,312}$ | 169,984 |
| 2 | $\frac{2,622,259,198}{7,136,870,401}$ | 99,999 | $\frac{7,136,670,401}{7,136,870,401}$ | 2 | $\frac{2,622,259,202}{7,136,870,399}$ | 100,000 | $\frac{200,000}{7,136,870,399}$ | 4,223,999,999 | $\frac{431}{1,056}$ | 4,224,000,000 | $\frac{625}{1,056}$ | 168,960 |
| 2 | $\frac{107,693,998}{282,025,001}$ | 99,999 | $\frac{282,017,001}{282,025,001}$ | 2 | $\frac{2,692,349,954}{7,050,625,023}$ | 100,000 | $\frac{200,000}{7,050,625,023}$ | 4,198,399,999 | $\frac{2,123}{5,248}$ | 4,198,400,000 | $\frac{3,125}{5,248}$ | 167,936 |
| 2 | $\frac{2,761,392,126}{6,964,903,937}$ | 99,999 | $\frac{6,964,703,937}{6,964,903,937}$ | 2 | $\frac{552,278,426}{1,392,980,787}$ | 100,000 | $\frac{40,000}{1,392,980,787}$ | 4,172,799,999 | $\frac{2,091}{5,216}$ | 4,172,800,000 | $\frac{3,125}{5,216}$ | 166,912 |
| 2 | $\frac{2,829,385,726}{6,879,707,137}$ | 99,999 | $\frac{6,879,507,137}{6,879,707,137}$ | 2 | $\frac{565,877,146}{1,375,941,427}$ | 100,000 | $\frac{40,000}{1,375,941,427}$ | 4,147,199,999 | $\frac{2,059}{5,184}$ | 4,147,200,000 | $\frac{3,125}{5,184}$ | 165,888 |
| 2 | $\frac{23,170,646}{54,360,277}$ | 99,999 | $\frac{54,358,677}{54,360,277}$ | 2 | $\frac{2,896,339,754}{6,795,034,623}$ | 100,000 | $\frac{200,000}{6,795,034,623}$ | 4,121,599,999 | $\frac{2,027}{5,152}$ | 4,121,600,000 | $\frac{3,125}{5,152}$ | 164,864 |
| 2 | $\frac{2,962,227,198}{6,710,886,401}$ | 99,999 | $\frac{6,710,686,401}{6,710,886,401}$ | 2 | $\frac{2,962,227,202}{6,710,886,399}$ | 100,000 | $\frac{200,000}{6,710,886,399}$ | 4,095,999,999 | $\frac{399}{1,024}$ | 4,096,000,000 | $\frac{625}{1,024}$ | 163,840 |
| 2 | $\frac{605,415,014}{1,325,452,493}$ | 99,999 | $\frac{1,325,412,493}{1,325,452,493}$ | 2 | $\frac{3,027,075,074}{6,627,262,463}$ | 100,000 | $\frac{200,000}{6,627,262,463}$ | 4,070,399,999 | $\frac{1,963}{5,088}$ | 4,070,400,000 | $\frac{3,125}{5,088}$ | 162,816 |
| 2 | $\frac{3,090,874,366}{6,544,162,817}$ | 99,999 | $\frac{6,543,962,817}{6,544,162,817}$ | 2 | $\frac{618,174,874}{1,308,832,563}$ | 100,000 | $\frac{40,000}{1,308,832,563}$ | 4,044,799,999 | $\frac{1,931}{5,056}$ | 4,044,800,000 | $\frac{3,125}{5,056}$ | 161,792 |
| 2 | $\frac{3,153,625,086}{6,461,587,457}$ | 99,999 | $\frac{6,461,387,457}{6,461,587,457}$ | 2 | $\frac{630,725,018}{1,292,317,491}$ | 100,000 | $\frac{40,000}{1,292,317,491}$ | 4,019,199,999 | $\frac{1,899}{5,024}$ | 4,019,200,000 | $\frac{3,125}{5,024}$ | 160,768 |
| 2 | $\frac{643,065,446}{1,275,907,277}$ | 99,999 | $\frac{1,275,867,277}{1,275,907,277}$ | 2 | $\frac{3,215,327,234}{6,379,536,383}$ | 100,000 | $\frac{200,000}{6,379,536,383}$ | 3,993,599,999 | $\frac{1,867}{4,992}$ | 3,993,600,000 | $\frac{3,125}{4,992}$ | 159,744 |
| 2 | $\frac{3,275,980,798}{6,298,009,601}$ | 99,999 | $\frac{6,297,809,601}{6,298,009,601}$ | 2 | $\frac{3,275,980,802}{6,298,009,599}$ | 100,000 | $\frac{200,000}{6,298,009,599}$ | 3,967,999,999 | $\frac{367}{992}$ | 3,968,000,000 | $\frac{625}{992}$ | 158,720 |
| 2 | $\frac{667,117,158}{1,243,401,421}$ | 99,999 | $\frac{1,243,361,421}{1,243,401,421}$ | 2 | $\frac{3,335,585,794}{6,217,007,103}$ | 100,000 | $\frac{200,000}{6,217,007,103}$ | 3,942,399,999 | $\frac{1,803}{4,928}$ | 3,942,400,000 | $\frac{3,125}{4,928}$ | 157,696 |
| 2 | $\frac{3,394,142,206}{6,136,528,897}$ | 99,999 | $\frac{6,136,328,897}{6,136,528,897}$ | 2 | $\frac{678,828,442}{1,227,395,779}$ | 100,000 | $\frac{40,000}{1,227,395,779}$ | 3,916,799,999 | $\frac{1,771}{4,896}$ | 3,916,800,000 | $\frac{3,125}{4,896}$ | 156,672 |
| 2 | $\frac{3,451,650,046}{6,056,574,977}$ | 99,999 | $\frac{6,056,374,977}{6,056,574,977}$ | 2 | $\frac{138,066,002}{242,262,999}$ | 100,000 | $\frac{8,000}{242,262,999}$ | 3,891,199,999 | $\frac{1,739}{4,864}$ | 3,891,200,000 | $\frac{3,125}{4,864}$ | 155,648 |
| 2 | $\frac{701,621,862}{1,195,429,069}$ | 99,999 | $\frac{1,195,389,069}{1,195,429,069}$ | 2 | $\frac{3,508,109,314}{5,977,145,343}$ | 100,000 | $\frac{200,000}{5,977,145,343}$ | 3,865,599,999 | $\frac{1,707}{4,832}$ | 3,865,600,000 | $\frac{3,125}{4,832}$ | 154,624 |
| 2 | $\frac{3,563,519,998}{5,898,240,001}$ | 99,999 | $\frac{5,898,040,001}{5,898,240,001}$ | 2 | $\frac{3,563,520,002}{5,898,239,999}$ | 100,000 | $\frac{200,000}{5,898,239,999}$ | 3,839,999,999 | $\frac{67}{192}$ | 3,840,000,000 | $\frac{125}{192}$ | 153,600 |
| 2 | $\frac{723,576,422}{1,163,971,789}$ | 99,999 | $\frac{1,163,931,789}{1,163,971,789}$ | 2 | $\frac{3,617,882,114}{5,819,858,943}$ | 100,000 | $\frac{200,000}{5,819,858,943}$ | 3,814,399,999 | $\frac{1,643}{4,768}$ | 3,814,400,000 | $\frac{3,125}{4,768}$ | 152,576 |
| 2 | $\frac{3,671,195,646}{5,742,002,177}$ | 99,999 | $\frac{5,741,802,177}{5,742,002,177}$ | 2 | $\frac{146,847,826}{229,680,087}$ | 100,000 | $\frac{8,000}{229,680,087}$ | 3,788,799,999 | $\frac{1,611}{4,736}$ | 3,788,800,000 | $\frac{3,125}{4,736}$ | 151,552 |
| 2 | $\frac{3,723,460,606}{5,664,669,697}$ | 99,999 | $\frac{5,664,469,697}{5,664,669,697}$ | 2 | $\frac{744,692,122}{1,132,933,939}$ | 100,000 | $\frac{40,000}{1,132,933,939}$ | 3,763,199,999 | $\frac{1,579}{4,704}$ | 3,763,200,000 | $\frac{3,125}{4,704}$ | 150,528 |
| 2 | $\frac{754,935,398}{1,117,572,301}$ | 99,999 | $\frac{1,117,532,301}{1,117,572,301}$ | 2 | $\frac{3,774,676,994}{5,587,861,503}$ | 100,000 | $\frac{200,000}{5,587,861,503}$ | 3,737,599,999 | $\frac{1,547}{4,672}$ | 3,737,600,000 | $\frac{3,125}{4,672}$ | 149,504 |
| 2 | $\frac{3,824,844,798}{5,511,577,601}$ | 99,999 | $\frac{5,511,377,601}{5,511,577,601}$ | 2 | $\frac{3,824,844,802}{5,511,577,599}$ | 100,000 | $\frac{200,000}{5,511,577,599}$ | 3,711,999,999 | $\frac{303}{928}$ | 3,712,000,000 | $\frac{625}{928}$ | 148,480 |
| 2 | $\frac{774,792,806}{1,087,163,597}$ | 99,999 | $\frac{1,087,123,597}{1,087,163,597}$ | 2 | $\frac{3,873,964,034}{5,435,817,983}$ | 100,000 | $\frac{200,000}{5,435,817,983}$ | 3,686,399,999 | $\frac{1,483}{4,608}$ | 3,686,400,000 | $\frac{3,125}{4,608}$ | 147,456 |
| 2 | $\frac{3,922,034,686}{5,360,582,657}$ | 99,999 | $\frac{5,360,382,657}{5,360,582,657}$ | 2 | $\frac{784,406,938}{1,072,116,531}$ | 100,000 | $\frac{40,000}{1,072,116,531}$ | 3,660,799,999 | $\frac{1,451}{4,576}$ | 3,660,800,000 | $\frac{3,125}{4,576}$ | 146,432 |
| 2 | $\frac{3,969,056,766}{5,285,871,617}$ | 99,999 | $\frac{5,285,671,617}{5,285,871,617}$ | 2 | $\frac{793,811,354}{1,057,174,323}$ | 100,000 | $\frac{40,000}{1,057,174,323}$ | 3,635,199,999 | $\frac{1,419}{4,544}$ | 3,635,200,000 | $\frac{3,125}{4,544}$ | 145,408 |
| 2 | $\frac{803,006,054}{1,042,336,973}$ | 99,999 | $\frac{1,042,296,973}{1,042,336,973}$ | 2 | $\frac{4,015,039,274}{5,211,684,863}$ | 100,000 | $\frac{200,000}{5,211,684,863}$ | 3,609,599,999 | $\frac{1,387}{4,512}$ | 3,609,600,000 | $\frac{3,125}{4,512}$ | 144,384 |
| 2 | $\frac{4,059,955,198}{5,138,022,401}$ | 99,999 | $\frac{5,137,822,401}{5,138,022,401}$ | 2 | $\frac{4,059,955,202}{5,138,022,399}$ | 100,000 | $\frac{200,000}{5,138,022,399}$ | 3,583,999,999 | $\frac{271}{896}$ | 3,584,000,000 | $\frac{625}{896}$ | 143,360 |
| 2 | $\frac{164,153,262}{202,595,369}$ | 99,999 | $\frac{202,587,369}{202,595,369}$ | 2 | $\frac{4,103,831,554}{5,064,884,223}$ | 100,000 | $\frac{200,000}{5,064,884,223}$ | 3,558,399,999 | $\frac{1,323}{4,448}$ | 3,558,400,000 | $\frac{3,125}{4,448}$ | 142,336 |
| 2 | $\frac{4,146,659,326}{4,992,270,337}$ | 99,999 | $\frac{4,992,070,337}{4,992,270,337}$ | 2 | $\frac{829,331,866}{998,454,067}$ | 100,000 | $\frac{40,000}{998,454,067}$ | 3,532,799,999 | $\frac{1,291}{4,416}$ | 3,532,800,000 | $\frac{3,125}{4,416}$ | 141,312 |
| 2 | $\frac{4,188,438,526}{4,920,180,737}$ | 99,999 | $\frac{4,919,980,737}{4,920,180,737}$ | 2 | $\frac{837,687,706}{984,036,147}$ | 100,000 | $\frac{40,000}{984,036,147}$ | 3,507,199,999 | $\frac{1,259}{4,384}$ | 3,507,200,000 | $\frac{3,125}{4,384}$ | 140,288 |
| 2 | $\frac{169,166,766}{193,944,617}$ | 99,999 | $\frac{193,936,617}{193,944,617}$ | 2 | $\frac{4,229,169,154}{4,848,615,423}$ | 100,000 | $\frac{200,000}{4,848,615,423}$ | 3,481,599,999 | $\frac{1,227}{4,352}$ | 3,481,600,000 | $\frac{3,125}{4,352}$ | 139,264 |
| 2 | $\frac{4,268,851,198}{4,777,574,401}$ | 99,999 | $\frac{4,777,374,401}{4,777,574,401}$ | 2 | $\frac{4,268,851,202}{4,777,574,399}$ | 100,000 | $\frac{200,000}{4,777,574,399}$ | 3,455,999,999 | $\frac{239}{864}$ | 3,456,000,000 | $\frac{625}{864}$ | 138,240 |
| <i>Basis</i> | | | <i>Perpendicularum</i> | | | <i>Basis</i> | | | <i>Hypotenusa</i> | | | Numeri primi Baseos |
| 100,000 Hypotenusa | | | 100,000 Perpendicularum | | | 100,000 Basis | | | Hypotenusa | | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 12 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-----------------------|------------------------|-----------------------|-------------------|---------------------------------|-----------------|---------------------------------------|------------------------|---------------------------------------|--------------|---------------------------------------|
| | SERIES III. | | | SERIES II. | | | SERIES I. | | | | | |
| 137,216 | 3,430,400,000 | $\frac{3.125}{4.288}$ | 3,430,399,999 | $\frac{1.163}{4.288}$ | 100,000 | $\frac{200,000}{4,707,057,663}$ | 2 | $\frac{4,307,484,674}{4,707,057,663}$ | 99,999 | $\frac{941,371,533}{941,411,533}$ | 2 | $\frac{861,496,934}{941,411,533}$ |
| 136,192 | 3,404,800,000 | $\frac{3.125}{4.256}$ | 3,404,799,999 | $\frac{1.131}{4.256}$ | 100,000 | $\frac{40,000}{927,413,043}$ | 2 | $\frac{869,013,914}{927,413,043}$ | 99,999 | $\frac{4,636,865,217}{4,637,065,217}$ | 2 | $\frac{4,345,069,566}{4,637,065,217}$ |
| 135,168 | 3,379,200,000 | $\frac{3.125}{4.224}$ | 3,379,199,999 | $\frac{1.099}{4.224}$ | 100,000 | $\frac{40,000}{913,519,411}$ | 2 | $\frac{876,321,178}{913,519,411}$ | 99,999 | $\frac{4,567,397,057}{4,567,597,057}$ | 2 | $\frac{4,381,605,886}{4,567,597,057}$ |
| 134,144 | 3,353,600,000 | $\frac{3.125}{4.192}$ | 3,353,599,999 | $\frac{1.067}{4.192}$ | 100,000 | $\frac{200,000}{4,498,653,183}$ | 2 | $\frac{4,417,093,634}{4,498,653,183}$ | 99,999 | $\frac{899,690,637}{899,730,637}$ | 2 | $\frac{883,418,726}{899,730,637}$ |
| 133,120 | 3,328,000,000 | $\frac{625}{832}$ | 3,327,999,999 | $\frac{207}{832}$ | 100,000 | $\frac{200,000}{4,430,233,599}$ | 3 | $\frac{21,299,203}{4,430,233,599}$ | 99,999 | $\frac{4,430,033,601}{4,430,233,601}$ | 3 | $\frac{21,299,197}{4,430,233,601}$ |
| 132,096 | 3,302,400,000 | $\frac{3.125}{4.128}$ | 3,302,399,999 | $\frac{1.003}{4.128}$ | 100,000 | $\frac{200,000}{4,362,338,303}$ | 3 | $\frac{122,585,091}{4,362,338,303}$ | 99,999 | $\frac{872,427,661}{872,467,661}$ | 3 | $\frac{24,517,017}{872,467,661}$ |
| 131,072 | 3,276,800,000 | $\frac{3.125}{4.096}$ | 3,276,799,999 | $\frac{971}{4.096}$ | 100,000 | $\frac{40,000}{858,993,459}$ | 3 | $\frac{44,459,623}{858,993,459}$ | 99,999 | $\frac{4,294,767,297}{4,294,967,297}$ | 3 | $\frac{222,298,109}{4,294,967,297}$ |
| 130,048 | 3,251,200,000 | $\frac{3.125}{4.064}$ | 3,251,199,999 | $\frac{939}{4.064}$ | 100,000 | $\frac{8,000}{169,124,823}$ | 3 | $\frac{12,817,531}{169,124,823}$ | 99,999 | $\frac{4,227,920,577}{4,228,120,577}$ | 3 | $\frac{320,438,269}{4,228,120,577}$ |
| 129,024 | 3,225,600,000 | $\frac{3.125}{4.032}$ | 3,225,599,999 | $\frac{907}{4.032}$ | 100,000 | $\frac{200,000}{4,161,798,143}$ | 3 | $\frac{417,005,571}{4,161,798,143}$ | 99,999 | $\frac{832,319,629}{832,359,629}$ | 3 | $\frac{83,401,113}{832,359,629}$ |
| 128,000 | 3,200,000,000 | $\frac{25}{32}$ | 3,199,999,999 | $\frac{7}{32}$ | 100,000 | $\frac{200,000}{4,095,999,999}$ | 3 | $\frac{512,000,003}{4,095,999,999}$ | 99,999 | $\frac{4,095,800,001}{4,096,000,001}$ | 3 | $\frac{511,999,997}{4,096,000,001}$ |
| 126,976 | 3,174,400,000 | $\frac{3.125}{3.968}$ | 3,174,399,999 | $\frac{843}{3.968}$ | 100,000 | $\frac{200,000}{4,030,726,143}$ | 3 | $\frac{605,421,571}{4,030,726,143}$ | 99,999 | $\frac{806,105,229}{806,145,229}$ | 3 | $\frac{121,084,313}{806,145,229}$ |
| 125,952 | 3,148,800,000 | $\frac{3.125}{3.936}$ | 3,148,799,999 | $\frac{811}{3.936}$ | 100,000 | $\frac{8,000}{158,639,063}$ | 3 | $\frac{27,890,811}{158,639,063}$ | 99,999 | $\frac{3,965,776,577}{3,965,976,577}$ | 3 | $\frac{697,270,269}{3,965,976,577}$ |
| 124,928 | 3,123,200,000 | $\frac{3.125}{3.904}$ | 3,123,199,999 | $\frac{779}{3.904}$ | 100,000 | $\frac{40,000}{780,350,259}$ | 3 | $\frac{157,509,223}{780,350,259}$ | 99,999 | $\frac{3,901,551,297}{3,901,751,297}$ | 3 | $\frac{787,546,109}{3,901,751,297}$ |
| 123,904 | 3,097,600,000 | $\frac{3.125}{3.872}$ | 3,097,599,999 | $\frac{747}{3.872}$ | 100,000 | $\frac{200,000}{3,838,050,303}$ | 3 | $\frac{876,249,091}{3,838,050,303}$ | 99,999 | $\frac{767,570,061}{767,610,061}$ | 3 | $\frac{175,249,817}{767,610,061}$ |
| 122,880 | 3,072,000,000 | $\frac{625}{768}$ | 3,071,999,999 | $\frac{143}{768}$ | 100,000 | $\frac{200,000}{3,774,873,599}$ | 3 | $\frac{963,379,203}{3,774,873,599}$ | 99,999 | $\frac{3,774,673,601}{3,774,873,601}$ | 3 | $\frac{963,379,197}{3,774,873,601}$ |
| 121,856 | 3,046,400,000 | $\frac{3.125}{3.808}$ | 3,046,399,999 | $\frac{683}{3.808}$ | 100,000 | $\frac{200,000}{3,712,221,183}$ | 3 | $\frac{1,048,936,451}{3,712,221,183}$ | 99,999 | $\frac{742,404,237}{742,444,237}$ | 3 | $\frac{209,787,289}{742,444,237}$ |
| 120,832 | 3,020,800,000 | $\frac{3.125}{3.776}$ | 3,020,799,999 | $\frac{651}{3.776}$ | 100,000 | $\frac{40,000}{730,018,611}$ | 3 | $\frac{226,584,167}{730,018,611}$ | 99,999 | $\frac{3,649,893,057}{3,650,093,057}$ | 3 | $\frac{1,132,920,829}{3,650,093,057}$ |
| 119,808 | 2,995,200,000 | $\frac{3.125}{3.744}$ | 2,995,199,999 | $\frac{619}{3.744}$ | 100,000 | $\frac{40,000}{717,697,843}$ | 3 | $\frac{243,066,471}{717,697,843}$ | 99,999 | $\frac{3,588,289,217}{3,588,489,217}$ | 3 | $\frac{1,215,332,349}{3,588,489,217}$ |
| 118,784 | 2,969,600,000 | $\frac{3.125}{3.712}$ | 2,969,599,999 | $\frac{587}{3.712}$ | 100,000 | $\frac{200,000}{3,527,409,663}$ | 3 | $\frac{1,296,171,011}{3,527,409,663}$ | 99,999 | $\frac{705,441,933}{705,481,933}$ | 3 | $\frac{259,234,201}{705,481,933}$ |
| 117,760 | 2,944,000,000 | $\frac{625}{736}$ | 2,943,999,999 | $\frac{111}{736}$ | 100,000 | $\frac{200,000}{3,466,854,399}$ | 3 | $\frac{1,375,436,803}{3,466,854,399}$ | 99,999 | $\frac{3,466,654,401}{3,466,854,401}$ | 3 | $\frac{1,375,436,797}{3,466,854,401}$ |
| 116,736 | 2,918,400,000 | $\frac{3.125}{3.648}$ | 2,918,399,999 | $\frac{523}{3.648}$ | 100,000 | $\frac{200,000}{3,406,823,423}$ | 3 | $\frac{1,453,129,731}{3,406,823,423}$ | 99,999 | $\frac{1,362,264,937}{1,362,272,937}$ | 3 | $\frac{58,125,189}{1,362,272,937}$ |
| 115,712 | 2,892,800,000 | $\frac{3.125}{3.616}$ | 2,892,799,999 | $\frac{491}{3.616}$ | 100,000 | $\frac{40,000}{669,463,347}$ | 3 | $\frac{395,849,959}{669,463,347}$ | 99,999 | $\frac{3,347,116,737}{3,347,316,737}$ | 3 | $\frac{1,529,249,789}{3,347,316,737}$ |
| 114,688 | 2,867,200,000 | $\frac{3.125}{3.584}$ | 2,867,199,999 | $\frac{459}{3.584}$ | 100,000 | $\frac{40,000}{657,666,867}$ | 3 | $\frac{320,759,399}{657,666,867}$ | 99,999 | $\frac{3,288,134,337}{3,288,334,337}$ | 3 | $\frac{1,603,796,989}{3,288,334,337}$ |
| 113,664 | 2,841,600,000 | $\frac{3.125}{3.552}$ | 2,841,599,999 | $\frac{427}{3.552}$ | 100,000 | $\frac{200,000}{3,229,876,223}$ | 3 | $\frac{1,676,771,331}{3,229,876,223}$ | 99,999 | $\frac{129,187,049}{129,195,049}$ | 3 | $\frac{67,070,853}{129,195,049}$ |
| 112,640 | 2,816,000,000 | $\frac{625}{704}$ | 2,815,999,999 | $\frac{79}{704}$ | 100,000 | $\frac{200,000}{3,174,942,399}$ | 3 | $\frac{1,748,172,803}{3,174,942,399}$ | 99,999 | $\frac{3,171,742,401}{3,171,942,401}$ | 3 | $\frac{1,748,172,797}{3,171,942,401}$ |
| 111,616 | 2,790,400,000 | $\frac{3.125}{3.488}$ | 2,790,399,999 | $\frac{363}{3.488}$ | 100,000 | $\frac{200,000}{3,114,532,863}$ | 3 | $\frac{1,818,001,411}{3,114,532,863}$ | 99,999 | $\frac{622,866,573}{622,906,573}$ | 3 | $\frac{363,600,281}{622,906,573}$ |
| 110,592 | 2,764,800,000 | $\frac{3.125}{3.456}$ | 2,764,799,999 | $\frac{331}{3.456}$ | 100,000 | $\frac{40,000}{611,529,523}$ | 3 | $\frac{377,251,431}{611,529,523}$ | 99,999 | $\frac{3,057,447,617}{3,057,647,617}$ | 3 | $\frac{1,886,257,149}{3,057,647,617}$ |
| 109,568 | 2,739,200,000 | $\frac{3.125}{3.424}$ | 2,739,199,999 | $\frac{299}{3.424}$ | 100,000 | $\frac{40,000}{600,257,331}$ | 3 | $\frac{390,588,007}{600,257,331}$ | 99,999 | $\frac{3,001,086,657}{3,001,286,657}$ | 3 | $\frac{1,952,940,029}{3,001,286,657}$ |
| 108,544 | 2,713,600,000 | $\frac{3.125}{3.392}$ | 2,713,599,999 | $\frac{267}{3.392}$ | 100,000 | $\frac{200,000}{2,945,449,983}$ | 3 | $\frac{2,018,050,051}{2,945,449,983}$ | 99,999 | $\frac{589,049,997}{589,089,997}$ | 3 | $\frac{403,610,009}{589,089,997}$ |
| 107,520 | 2,688,000,000 | $\frac{625}{672}$ | 2,687,999,999 | $\frac{47}{672}$ | 100,000 | $\frac{200,000}{2,890,137,599}$ | 3 | $\frac{2,081,587,203}{2,890,137,599}$ | 99,999 | $\frac{2,889,937,601}{2,890,137,601}$ | 3 | $\frac{2,081,587,197}{2,890,137,601}$ |
| 106,496 | 2,662,400,000 | $\frac{3.125}{3.328}$ | 2,662,399,999 | $\frac{203}{3.328}$ | 100,000 | $\frac{200,000}{2,835,349,503}$ | 3 | $\frac{2,143,551,491}{2,835,349,503}$ | 99,999 | $\frac{567,029,901}{567,069,901}$ | 3 | $\frac{428,710,297}{567,069,901}$ |
| 105,472 | 2,636,800,000 | $\frac{3.125}{3.296}$ | 2,636,799,999 | $\frac{171}{3.296}$ | 100,000 | $\frac{40,000}{556,217,139}$ | 3 | $\frac{440,788,583}{556,217,139}$ | 99,999 | $\frac{2,780,885,697}{2,781,085,697}$ | 3 | $\frac{2,203,942,009}{2,781,085,697}$ |
| 104,448 | 2,611,200,000 | $\frac{3.125}{3.264}$ | 2,611,199,999 | $\frac{139}{3.264}$ | 100,000 | $\frac{8,000}{109,093,847}$ | 3 | $\frac{90,510,459}{109,093,847}$ | 99,999 | $\frac{2,727,146,177}{2,727,346,177}$ | 3 | $\frac{2,262,761,469}{2,727,346,177}$ |
| 103,424 | 2,585,600,000 | $\frac{3.125}{3.232}$ | 2,585,599,999 | $\frac{107}{3.232}$ | 100,000 | $\frac{200,000}{2,674,130,943}$ | 3 | $\frac{2,320,007,171}{2,674,130,943}$ | 99,999 | $\frac{534,786,189}{534,826,189}$ | 3 | $\frac{464,001,433}{534,826,189}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | Basis | | Basis | | Perpendicularum | | Perpendicularum | | Hypotenusa | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 13 | |
|---------------------|---------------------------------------|--------|---------------------------------------|---|---------------------------------------|-----------------|---------------------------------|---------------|-----------------------|---------------|-----------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 3 | $\frac{2,375,679,997}{2,621,440,001}$ | 99,999 | $\frac{2,621,240,001}{2,621,440,001}$ | 3 | $\frac{2,375,680,003}{2,621,439,999}$ | 100,000 | $\frac{200,000}{2,621,439,999}$ | 2,559,999,999 | $\frac{3}{128}$ | 2,560,000,000 | $\frac{125}{128}$ | 102,400 |
| 3 | $\frac{2,402,926,589}{2,595,291,137}$ | 99,999 | $\frac{2,595,091,137}{2,595,291,137}$ | 3 | $\frac{480,585,319}{519,058,227}$ | 100,000 | $\frac{40,000}{519,058,227}$ | 2,547,199,999 | $\frac{59}{3,184}$ | 2,547,200,000 | $\frac{3,125}{3,184}$ | 101,888 |
| 3 | $\frac{485,955,993}{513,854,669}$ | 99,999 | $\frac{513,814,669}{513,854,669}$ | 3 | $\frac{2,429,779,971}{2,569,273,343}$ | 100,000 | $\frac{200,000}{2,569,273,343}$ | 2,534,399,999 | $\frac{43}{3,168}$ | 2,534,400,000 | $\frac{3,125}{3,168}$ | 101,376 |
| 3 | $\frac{19,649,921}{20,347,093}$ | 99,999 | $\frac{20,345,493}{20,347,093}$ | 3 | $\frac{2,456,240,131}{2,543,386,623}$ | 100,000 | $\frac{200,000}{2,543,386,623}$ | 2,521,599,999 | $\frac{27}{3,152}$ | 2,521,600,000 | $\frac{3,125}{3,152}$ | 100,864 |
| 3 | $\frac{2,482,307,069}{2,517,630,977}$ | 99,999 | $\frac{2,517,430,977}{2,517,630,977}$ | 3 | $\frac{99,292,283}{100,705,239}$ | 100,000 | $\frac{8,000}{100,705,239}$ | 2,508,799,999 | $\frac{11}{3,136}$ | 2,508,800,000 | $\frac{3,125}{3,136}$ | 100,352 |
| 4 | $\frac{15,974,396}{2,492,006,401}$ | 99,999 | $\frac{2,491,806,401}{2,492,006,401}$ | 4 | $\frac{15,974,404}{2,492,006,399}$ | 100,000 | $\frac{200,000}{2,492,006,399}$ | 2,495,999,998 | $\frac{623}{624}$ | 2,496,000,001 | $\frac{1}{624}$ | 99,840 |
| 4 | $\frac{66,748,412}{2,466,512,897}$ | 99,999 | $\frac{2,466,312,897}{2,466,512,897}$ | 4 | $\frac{13,349,684}{493,302,579}$ | 100,000 | $\frac{40,000}{493,302,579}$ | 2,483,199,998 | $\frac{3,083}{3,104}$ | 2,483,200,001 | $\frac{21}{3,104}$ | 99,328 |
| 4 | $\frac{23,399,628}{488,230,093}$ | 99,999 | $\frac{488,190,093}{488,230,093}$ | 4 | $\frac{116,998,148}{2,441,150,463}$ | 100,000 | $\frac{200,000}{2,441,150,463}$ | 2,470,399,998 | $\frac{3,051}{3,088}$ | 2,470,400,001 | $\frac{37}{3,088}$ | 98,816 |
| 4 | $\frac{33,344,716}{483,183,821}$ | 99,999 | $\frac{483,143,821}{483,183,821}$ | 4 | $\frac{166,723,588}{2,415,919,103}$ | 100,000 | $\frac{200,000}{2,415,919,103}$ | 2,457,599,998 | $\frac{3,019}{3,072}$ | 2,457,600,001 | $\frac{53}{3,072}$ | 98,304 |
| 4 | $\frac{215,924,732}{2,390,818,817}$ | 99,999 | $\frac{2,390,618,817}{2,390,818,817}$ | 4 | $\frac{43,184,948}{478,163,763}$ | 100,000 | $\frac{40,000}{478,163,763}$ | 2,444,799,998 | $\frac{2,987}{3,056}$ | 2,444,800,001 | $\frac{69}{3,056}$ | 97,792 |
| 4 | $\frac{264,601,596}{2,365,849,601}$ | 99,999 | $\frac{2,365,649,601}{2,365,849,601}$ | 4 | $\frac{264,601,604}{2,365,849,599}$ | 100,000 | $\frac{200,000}{2,365,849,599}$ | 2,431,999,998 | $\frac{591}{608}$ | 2,432,000,001 | $\frac{17}{608}$ | 97,280 |
| 4 | $\frac{312,754,172}{2,341,011,457}$ | 99,999 | $\frac{2,340,811,457}{2,341,011,457}$ | 4 | $\frac{62,550,836}{468,202,291}$ | 100,000 | $\frac{40,000}{468,202,291}$ | 2,419,199,998 | $\frac{2,923}{3,024}$ | 2,419,200,001 | $\frac{101}{3,024}$ | 96,768 |
| 4 | $\frac{72,076,492}{463,260,877}$ | 99,999 | $\frac{463,220,877}{463,260,877}$ | 4 | $\frac{360,382,468}{2,316,304,383}$ | 100,000 | $\frac{200,000}{2,316,304,383}$ | 2,406,399,998 | $\frac{2,891}{3,008}$ | 2,406,400,001 | $\frac{117}{3,008}$ | 96,256 |
| 4 | $\frac{81,497,292}{458,345,677}$ | 99,999 | $\frac{458,305,677}{458,345,677}$ | 4 | $\frac{407,486,468}{2,291,728,383}$ | 100,000 | $\frac{200,000}{2,291,728,383}$ | 2,393,599,998 | $\frac{2,859}{2,992}$ | 2,393,600,001 | $\frac{133}{2,992}$ | 95,744 |
| 4 | $\frac{454,066,172}{2,267,283,457}$ | 99,999 | $\frac{2,267,083,457}{2,267,283,457}$ | 4 | $\frac{90,813,236}{453,456,691}$ | 100,000 | $\frac{40,000}{453,456,691}$ | 2,380,799,998 | $\frac{2,827}{2,976}$ | 2,380,800,001 | $\frac{149}{2,976}$ | 95,232 |
| 4 | $\frac{500,121,596}{2,242,969,601}$ | 99,999 | $\frac{2,242,769,601}{2,242,969,601}$ | 4 | $\frac{500,121,604}{2,242,969,599}$ | 100,000 | $\frac{200,000}{2,242,969,599}$ | 2,367,999,998 | $\frac{559}{592}$ | 2,368,000,001 | $\frac{33}{592}$ | 94,720 |
| 4 | $\frac{545,652,732}{2,218,786,817}$ | 99,999 | $\frac{2,218,586,817}{2,218,786,817}$ | 4 | $\frac{109,130,548}{443,757,363}$ | 100,000 | $\frac{40,000}{443,757,363}$ | 2,355,199,998 | $\frac{2,763}{2,944}$ | 2,355,200,001 | $\frac{181}{2,944}$ | 94,208 |
| 4 | $\frac{118,131,916}{438,947,021}$ | 99,999 | $\frac{438,907,021}{438,947,021}$ | 4 | $\frac{590,659,588}{2,194,735,103}$ | 100,000 | $\frac{200,000}{2,194,735,103}$ | 2,342,399,998 | $\frac{2,731}{2,928}$ | 2,342,400,001 | $\frac{197}{2,928}$ | 93,696 |
| 4 | $\frac{127,028,428}{434,162,893}$ | 99,999 | $\frac{434,122,893}{434,162,893}$ | 4 | $\frac{635,142,148}{2,170,814,463}$ | 100,000 | $\frac{200,000}{2,170,814,463}$ | 2,329,599,998 | $\frac{2,699}{2,912}$ | 2,329,600,001 | $\frac{213}{2,912}$ | 93,184 |
| 4 | $\frac{679,100,412}{2,147,024,897}$ | 99,999 | $\frac{2,146,824,897}{2,147,024,897}$ | 4 | $\frac{135,820,084}{429,404,979}$ | 100,000 | $\frac{40,000}{429,404,979}$ | 2,316,799,998 | $\frac{2,667}{2,896}$ | 2,316,800,001 | $\frac{229}{2,896}$ | 92,672 |
| 4 | $\frac{722,534,396}{2,123,366,401}$ | 99,999 | $\frac{2,123,166,401}{2,123,366,401}$ | 4 | $\frac{722,534,404}{2,123,366,399}$ | 100,000 | $\frac{200,000}{2,123,366,399}$ | 2,303,999,998 | $\frac{527}{576}$ | 2,304,000,001 | $\frac{49}{576}$ | 92,160 |
| 4 | $\frac{765,444,092}{2,099,838,977}$ | 99,999 | $\frac{2,099,638,977}{2,099,838,977}$ | 4 | $\frac{30,617,764}{83,993,559}$ | 100,000 | $\frac{8,000}{83,993,559}$ | 2,291,199,998 | $\frac{2,603}{2,864}$ | 2,291,200,001 | $\frac{261}{2,864}$ | 91,648 |
| 4 | $\frac{6,462,636}{16,611,541}$ | 99,999 | $\frac{16,609,941}{16,611,541}$ | 4 | $\frac{807,829,508}{2,076,442,623}$ | 100,000 | $\frac{200,000}{2,076,442,623}$ | 2,278,399,998 | $\frac{2,571}{2,848}$ | 2,278,400,001 | $\frac{277}{2,848}$ | 91,136 |
| 4 | $\frac{169,938,124}{410,635,469}$ | 99,999 | $\frac{410,595,469}{410,635,469}$ | 4 | $\frac{849,690,628}{2,053,177,343}$ | 100,000 | $\frac{200,000}{2,053,177,343}$ | 2,265,599,998 | $\frac{2,539}{2,832}$ | 2,265,600,001 | $\frac{293}{2,832}$ | 90,624 |
| 4 | $\frac{891,027,452}{2,030,043,137}$ | 99,999 | $\frac{2,029,843,137}{2,030,043,137}$ | 4 | $\frac{178,205,492}{406,008,627}$ | 100,000 | $\frac{40,000}{406,008,627}$ | 2,252,799,998 | $\frac{2,507}{2,816}$ | 2,252,800,001 | $\frac{309}{2,816}$ | 90,112 |
| 4 | $\frac{931,839,996}{2,007,040,001}$ | 99,999 | $\frac{2,006,840,001}{2,007,040,001}$ | 4 | $\frac{931,840,004}{2,007,039,999}$ | 100,000 | $\frac{200,000}{2,007,039,999}$ | 2,239,999,998 | $\frac{99}{112}$ | 2,240,000,001 | $\frac{13}{112}$ | 89,600 |
| 4 | $\frac{972,128,252}{1,984,167,937}$ | 99,999 | $\frac{1,983,967,937}{1,984,167,937}$ | 4 | $\frac{194,425,652}{396,833,587}$ | 100,000 | $\frac{40,000}{396,833,587}$ | 2,227,199,998 | $\frac{2,443}{2,784}$ | 2,227,200,001 | $\frac{341}{2,784}$ | 89,088 |
| 4 | $\frac{202,378,444}{392,285,389}$ | 99,999 | $\frac{392,245,389}{392,285,389}$ | 4 | $\frac{1,011,892,228}{1,961,426,943}$ | 100,000 | $\frac{200,000}{1,961,426,943}$ | 2,214,399,998 | $\frac{2,411}{2,768}$ | 2,214,400,001 | $\frac{357}{2,768}$ | 88,576 |
| 4 | $\frac{42,045,276}{77,552,681}$ | 99,999 | $\frac{77,544,681}{77,552,681}$ | 4 | $\frac{1,051,131,908}{1,938,817,023}$ | 100,000 | $\frac{200,000}{1,938,817,023}$ | 2,201,599,998 | $\frac{2,379}{2,752}$ | 2,201,600,001 | $\frac{373}{2,752}$ | 88,064 |
| 4 | $\frac{1,089,847,292}{1,916,338,177}$ | 99,999 | $\frac{1,916,138,177}{1,916,338,177}$ | 4 | $\frac{43,593,892}{76,653,527}$ | 100,000 | $\frac{8,000}{76,653,527}$ | 2,188,799,998 | $\frac{2,347}{2,736}$ | 2,188,800,001 | $\frac{389}{2,736}$ | 87,552 |
| 4 | $\frac{1,128,038,396}{1,893,990,401}$ | 99,999 | $\frac{1,893,790,401}{1,893,990,401}$ | 4 | $\frac{1,128,038,404}{1,893,990,399}$ | 100,000 | $\frac{200,000}{1,893,990,399}$ | 2,175,999,998 | $\frac{463}{544}$ | 2,176,000,001 | $\frac{81}{544}$ | 87,040 |
| 4 | $\frac{1,165,705,212}{1,871,773,697}$ | 99,999 | $\frac{1,871,573,697}{1,871,773,697}$ | 4 | $\frac{233,141,044}{374,354,739}$ | 100,000 | $\frac{40,000}{374,354,739}$ | 2,163,199,998 | $\frac{2,283}{2,704}$ | 2,163,200,001 | $\frac{421}{2,704}$ | 86,528 |
| Basis | | | Perpendicularum | | | Basis | | | Hypotenusa | | | Numeri primi Baseos |
| 100,000 | | | 100,000 | | | 100,000 | | | 100,000 | | | |
| Hypotenusa | | | Perpendicularum | | | Perpendicularum | | | Basis | | | |

Vietè's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 15 | |
|--|---------------------------------------|--------|---------------------------------------|---|---------------------------------------|--|---------------------------------|---------------|--|---------------|-----------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 5 | $\frac{976,977,915}{1,176,764,417}$ | 99,999 | $\frac{1,176,564,417}{1,176,764,417}$ | 5 | $\frac{195,395,585}{235,352,883}$ | 100,000 | $\frac{40,000}{235,352,883}$ | 1,715,199,998 | $\frac{1,163}{2,144}$ | 1,715,200,001 | $\frac{981}{2,144}$ | 68,608 |
| 5 | $\frac{202,653,695}{231,853,261}$ | 99,999 | $\frac{231,813,261}{231,853,261}$ | 5 | $\frac{1,013,268,485}{1,159,266,393}$ | 100,000 | $\frac{200,000}{1,159,266,393}$ | 1,702,399,998 | $\frac{1,131}{2,128}$ | 1,702,400,001 | $\frac{997}{2,128}$ | 68,096 |
| 5 | $\frac{209,780,735}{228,379,853}$ | 99,999 | $\frac{228,339,853}{228,379,853}$ | 5 | $\frac{1,048,903,685}{1,141,899,263}$ | 100,000 | $\frac{200,000}{1,141,899,263}$ | 1,689,599,998 | $\frac{1,099}{2,112}$ | 1,689,600,001 | $\frac{1,013}{2,112}$ | 67,584 |
| 5 | $\frac{1,083,883,515}{1,124,663,297}$ | 99,999 | $\frac{1,124,463,297}{1,124,663,297}$ | 5 | $\frac{216,776,705}{224,932,659}$ | 100,000 | $\frac{40,000}{224,932,659}$ | 1,676,799,998 | $\frac{1,067}{2,096}$ | 1,676,800,001 | $\frac{1,029}{2,096}$ | 67,072 |
| 6 | $\frac{10,649,594}{1,107,558,401}$ | 99,999 | $\frac{1,107,358,401}{1,107,558,401}$ | 6 | $\frac{10,649,606}{1,107,558,399}$ | 100,000 | $\frac{200,000}{1,107,558,399}$ | 1,663,999,998 | $\frac{207}{416}$ | 1,664,000,001 | $\frac{209}{416}$ | 66,560 |
| 6 | $\frac{61,292,538}{1,090,584,577}$ | 99,999 | $\frac{1,090,384,577}{1,090,584,577}$ | 6 | $\frac{2,451,702}{43,623,383}$ | 100,000 | $\frac{8,000}{43,623,383}$ | 1,651,199,998 | $\frac{1,003}{2,064}$ | 1,651,200,001 | $\frac{1,061}{2,064}$ | 66,048 |
| 6 | $\frac{4,445,962}{42,949,673}$ | 99,999 | $\frac{42,941,673}{42,949,673}$ | 6 | $\frac{111,149,062}{1,073,741,823}$ | 100,000 | $\frac{200,000}{1,073,741,823}$ | 1,638,399,998 | $\frac{971}{2,048}$ | 1,638,400,001 | $\frac{1,077}{2,048}$ | 65,536 |
| 6 | $\frac{32,043,826}{211,406,029}$ | 99,999 | $\frac{211,366,029}{211,406,029}$ | 6 | $\frac{160,219,142}{1,057,030,143}$ | 100,000 | $\frac{200,000}{1,057,030,143}$ | 1,625,599,998 | $\frac{939}{2,032}$ | 1,625,600,001 | $\frac{1,093}{2,032}$ | 65,024 |
| 6 | $\frac{208,502,778}{1,040,449,537}$ | 99,999 | $\frac{1,040,249,537}{1,040,449,537}$ | 6 | $\frac{41,709,528}{208,089,907}$ | 100,000 | $\frac{40,000}{208,089,907}$ | 1,612,799,998 | $\frac{907}{2,016}$ | 1,612,800,001 | $\frac{1,109}{2,016}$ | 64,512 |
| 6 | $\frac{255,999,994}{1,024,000,001}$ | 99,999 | $\frac{1,023,800,001}{1,024,000,001}$ | 6 | $\frac{25,000,006}{1,023,999,999}$ | 100,000 | $\frac{200,000}{1,023,999,999}$ | 1,599,999,998 | $\frac{7}{16}$ | 1,600,000,001 | $\frac{9}{16}$ | 64,000 |
| 6 | $\frac{302,710,778}{1,007,681,537}$ | 99,999 | $\frac{1,007,481,537}{1,007,681,537}$ | 6 | $\frac{60,542,158}{201,536,307}$ | 100,000 | $\frac{40,000}{201,536,307}$ | 1,587,199,998 | $\frac{843}{1,984}$ | 1,587,200,001 | $\frac{1,141}{1,984}$ | 63,488 |
| 6 | $\frac{69,727,026}{198,298,829}$ | 99,999 | $\frac{198,258,829}{198,298,829}$ | 6 | $\frac{348,635,142}{991,494,143}$ | 100,000 | $\frac{200,000}{991,494,143}$ | 1,574,399,998 | $\frac{811}{1,968}$ | 1,574,400,001 | $\frac{1,157}{1,968}$ | 62,976 |
| 6 | $\frac{15,750,922}{39,017,513}$ | 99,999 | $\frac{39,009,513}{39,017,513}$ | 6 | $\frac{393,773,062}{975,437,823}$ | 100,000 | $\frac{200,000}{975,437,823}$ | 1,561,599,998 | $\frac{779}{1,952}$ | 1,561,600,001 | $\frac{1,173}{1,952}$ | 62,464 |
| 6 | $\frac{438,124,538}{959,512,577}$ | 99,999 | $\frac{959,312,577}{959,512,577}$ | 6 | $\frac{17,524,982}{38,380,503}$ | 100,000 | $\frac{8,000}{38,380,503}$ | 1,548,799,998 | $\frac{747}{1,936}$ | 1,548,800,001 | $\frac{1,189}{1,936}$ | 61,952 |
| 6 | $\frac{481,689,594}{943,718,401}$ | 99,999 | $\frac{943,518,401}{943,718,401}$ | 6 | $\frac{481,689,606}{943,718,399}$ | 100,000 | $\frac{200,000}{943,718,399}$ | 1,535,999,998 | $\frac{143}{384}$ | 1,536,000,001 | $\frac{241}{384}$ | 61,440 |
| 6 | $\frac{524,468,218}{928,055,297}$ | 99,999 | $\frac{927,855,297}{928,055,297}$ | 6 | $\frac{104,893,646}{185,611,059}$ | 100,000 | $\frac{40,000}{185,611,059}$ | 1,523,199,998 | $\frac{683}{1,904}$ | 1,523,200,001 | $\frac{1,221}{1,904}$ | 60,928 |
| 6 | $\frac{113,292,082}{182,504,653}$ | 99,999 | $\frac{182,464,653}{182,504,653}$ | 6 | $\frac{566,460,422}{912,523,263}$ | 100,000 | $\frac{200,000}{912,523,263}$ | 1,510,399,998 | $\frac{651}{1,888}$ | 1,510,400,001 | $\frac{1,237}{1,888}$ | 60,416 |
| 6 | $\frac{121,533,234}{179,424,461}$ | 99,999 | $\frac{179,384,461}{179,424,461}$ | 6 | $\frac{607,666,182}{897,122,303}$ | 100,000 | $\frac{200,000}{897,122,303}$ | 1,497,599,998 | $\frac{619}{1,872}$ | 1,497,600,001 | $\frac{1,253}{1,872}$ | 59,904 |
| 6 | $\frac{648,085,498}{881,852,417}$ | 99,999 | $\frac{881,652,417}{881,852,417}$ | 6 | $\frac{129,617,102}{176,370,483}$ | 100,000 | $\frac{40,000}{176,370,483}$ | 1,484,799,998 | $\frac{587}{1,856}$ | 1,484,800,001 | $\frac{1,269}{1,856}$ | 59,392 |
| 6 | $\frac{687,718,394}{866,713,601}$ | 99,999 | $\frac{866,513,601}{866,713,601}$ | 6 | $\frac{687,718,406}{866,713,599}$ | 100,000 | $\frac{200,000}{866,713,599}$ | 1,471,999,998 | $\frac{111}{368}$ | 1,472,000,001 | $\frac{257}{368}$ | 58,880 |
| 6 | $\frac{726,564,858}{851,705,857}$ | 99,999 | $\frac{851,505,857}{851,705,857}$ | 6 | $\frac{145,312,974}{170,341,171}$ | 100,000 | $\frac{40,000}{170,341,171}$ | 1,459,199,998 | $\frac{523}{1,824}$ | 1,459,200,001 | $\frac{1,301}{1,824}$ | 58,368 |
| 6 | $\frac{152,924,978}{167,365,837}$ | 99,999 | $\frac{167,325,837}{167,365,837}$ | 6 | $\frac{764,624,902}{836,829,183}$ | 100,000 | $\frac{200,000}{836,829,183}$ | 1,446,399,998 | $\frac{491}{1,808}$ | 1,446,400,001 | $\frac{1,317}{1,808}$ | 57,856 |
| 6 | $\frac{160,379,698}{164,416,717}$ | 99,999 | $\frac{164,376,717}{164,416,717}$ | 6 | $\frac{801,898,502}{822,083,583}$ | 100,000 | $\frac{200,000}{822,083,583}$ | 1,433,599,998 | $\frac{459}{1,792}$ | 1,433,600,001 | $\frac{1,333}{1,792}$ | 57,344 |
| 7 | $\frac{30,916,601}{807,469,057}$ | 99,999 | $\frac{807,269,057}{807,469,057}$ | 7 | $\frac{6,183,323}{161,493,811}$ | 100,000 | $\frac{40,000}{161,493,811}$ | 1,420,799,998 | $\frac{427}{1,776}$ | 1,420,800,001 | $\frac{1,349}{1,776}$ | 56,832 |
| 7 | $\frac{81,100,793}{792,985,601}$ | 99,999 | $\frac{792,785,601}{792,985,601}$ | 7 | $\frac{81,100,807}{792,985,599}$ | 100,000 | $\frac{200,000}{792,985,599}$ | 1,407,999,998 | $\frac{79}{352}$ | 1,408,000,001 | $\frac{273}{352}$ | 56,320 |
| 7 | $\frac{130,367,481}{778,633,217}$ | 99,999 | $\frac{778,433,217}{778,633,217}$ | 7 | $\frac{26,073,499}{155,726,643}$ | 100,000 | $\frac{40,000}{155,726,643}$ | 1,395,199,998 | $\frac{363}{1,744}$ | 1,395,200,001 | $\frac{1,381}{1,744}$ | 55,808 |
| 7 | $\frac{35,743,333}{152,882,381}$ | 99,999 | $\frac{152,842,381}{152,882,381}$ | 7 | $\frac{178,716,679}{764,411,903}$ | 100,000 | $\frac{200,000}{764,411,903}$ | 1,382,399,998 | $\frac{331}{1,728}$ | 1,382,400,001 | $\frac{1,397}{1,728}$ | 55,296 |
| 7 | $\frac{45,229,669}{150,064,333}$ | 99,999 | $\frac{150,024,333}{150,064,333}$ | 7 | $\frac{226,148,359}{750,321,663}$ | 100,000 | $\frac{200,000}{750,321,663}$ | 1,369,599,998 | $\frac{299}{1,712}$ | 1,369,600,001 | $\frac{1,413}{1,712}$ | 54,784 |
| 7 | $\frac{272,662,521}{736,362,497}$ | 99,999 | $\frac{736,162,497}{736,362,497}$ | 7 | $\frac{54,532,507}{147,272,499}$ | 100,000 | $\frac{40,000}{147,272,499}$ | 1,356,799,998 | $\frac{267}{1,696}$ | 1,356,800,001 | $\frac{1,429}{1,696}$ | 54,272 |
| 7 | $\frac{318,259,193}{722,534,401}$ | 99,999 | $\frac{722,334,401}{722,534,401}$ | 7 | $\frac{318,259,207}{722,534,399}$ | 100,000 | $\frac{200,000}{722,534,399}$ | 1,343,999,998 | $\frac{47}{336}$ | 1,344,000,001 | $\frac{289}{336}$ | 53,760 |
| 7 | $\frac{362,938,361}{708,837,377}$ | 99,999 | $\frac{708,637,377}{708,837,377}$ | 7 | $\frac{2,993,507}{5,670,699}$ | 100,000 | $\frac{1,600}{5,670,699}$ | 1,331,199,998 | $\frac{203}{1,664}$ | 1,331,200,001 | $\frac{1,461}{1,664}$ | 53,248 |
| 7 | $\frac{16,268,001}{27,810,857}$ | 99,999 | $\frac{27,802,857}{27,810,857}$ | 7 | $\frac{406,700,039}{695,271,423}$ | 100,000 | $\frac{200,000}{695,271,423}$ | 1,318,399,998 | $\frac{171}{1,648}$ | 1,318,400,001 | $\frac{1,477}{1,648}$ | 52,736 |
| 7 | $\frac{89,908,837}{136,367,309}$ | 99,999 | $\frac{136,327,309}{136,367,309}$ | 7 | $\frac{449,544,199}{681,836,543}$ | 100,000 | $\frac{200,000}{681,836,543}$ | 1,305,599,998 | $\frac{139}{1,632}$ | 1,305,600,001 | $\frac{1,493}{1,632}$ | 52,224 |
| 7 | $\frac{491,470,841}{668,532,737}$ | 99,999 | $\frac{668,332,737}{668,532,737}$ | 7 | $\frac{98,294,171}{133,706,547}$ | 100,000 | $\frac{40,000}{133,706,547}$ | 1,292,799,998 | $\frac{107}{1,616}$ | 1,292,800,001 | $\frac{1,509}{1,616}$ | 51,712 |
| <i>Basis</i> 100,000 <i>Hypotenusa</i> | | | <i>Perpendicularum</i> | | | <i>Basis</i> 100,000 <i>Hypotenusa</i> | | | <i>Perpendicularum</i> 100,000 <i>Hypotenusa</i> <i>Basis</i> | | | Numeri primi Baseos |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 16 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-----------------------|------------------------|-----------------------|-------------------|-------------------------------|-----------------|-----------------------------------|------------------------|-----------------------------------|--------------|-----------------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 51,200 | 1,280,000,001 | $\frac{61}{64}$ | 1,279,999,998 | $\frac{3}{64}$ | 100,000 | $\frac{200,000}{655,359,999}$ | 7 | $\frac{532,480,007}{655,359,999}$ | 99,999 | $\frac{655,160,001}{655,360,001}$ | 7 | $\frac{532,479,993}{655,360,001}$ |
| 50,944 | 1,273,600,001 | $\frac{1,533}{1,592}$ | 1,273,599,998 | $\frac{59}{1,592}$ | 100,000 | $\frac{200,000}{648,822,783}$ | 7 | $\frac{552,640,519}{648,822,783}$ | 99,999 | $\frac{129,724,557}{129,764,557}$ | 7 | $\frac{110,528,101}{129,764,557}$ |
| 50,688 | 1,267,200,001 | $\frac{1,541}{1,584}$ | 1,267,199,998 | $\frac{43}{1,584}$ | 100,000 | $\frac{40,000}{128,463,667}$ | 7 | $\frac{114,514,331}{128,463,667}$ | 99,999 | $\frac{642,118,337}{642,318,337}$ | 7 | $\frac{572,571,641}{642,318,337}$ |
| 50,432 | 1,260,800,001 | $\frac{1,549}{1,576}$ | 1,260,799,998 | $\frac{27}{1,576}$ | 100,000 | $\frac{40,000}{127,169,331}$ | 7 | $\frac{118,454,683}{127,169,331}$ | 99,999 | $\frac{635,646,657}{635,846,657}$ | 7 | $\frac{592,273,401}{635,846,657}$ |
| 50,176 | 1,254,400,001 | $\frac{1,557}{1,568}$ | 1,254,399,998 | $\frac{11}{1,568}$ | 100,000 | $\frac{200,000}{629,407,743}$ | 7 | $\frac{611,745,799}{629,407,743}$ | 99,999 | $\frac{125,841,549}{125,881,549}$ | 7 | $\frac{122,349,157}{125,881,549}$ |
| 49,920 | 1,248,000,002 | $\frac{1}{312}$ | 1,247,999,997 | $\frac{311}{312}$ | 100,000 | $\frac{200,000}{623,001,599}$ | 8 | $\frac{7,987,208}{623,001,599}$ | 99,999 | $\frac{622,801,601}{623,001,601}$ | 8 | $\frac{7,987,192}{623,001,601}$ |
| 49,664 | 1,241,600,002 | $\frac{21}{1,552}$ | 1,241,599,997 | $\frac{1,531}{1,552}$ | 100,000 | $\frac{200,000}{616,628,223}$ | 8 | $\frac{33,374,216}{616,628,223}$ | 99,999 | $\frac{24,657,129}{24,665,129}$ | 8 | $\frac{1,334,068}{24,665,129}$ |
| 49,408 | 1,235,200,002 | $\frac{37}{1,544}$ | 1,235,199,997 | $\frac{1,507}{1,544}$ | 100,000 | $\frac{40,000}{122,057,523}$ | 8 | $\frac{11,699,816}{122,057,523}$ | 99,999 | $\frac{610,087,617}{610,287,617}$ | 8 | $\frac{58,499,064}{610,287,617}$ |
| 49,152 | 1,228,800,002 | $\frac{53}{1,536}$ | 1,228,799,997 | $\frac{1,483}{1,536}$ | 100,000 | $\frac{8,000}{24,159,191}$ | 8 | $\frac{3,334,472}{24,159,191}$ | 99,999 | $\frac{603,779,777}{603,979,777}$ | 8 | $\frac{83,361,784}{603,979,777}$ |
| 48,896 | 1,222,400,002 | $\frac{69}{1,528}$ | 1,222,399,997 | $\frac{1,459}{1,528}$ | 100,000 | $\frac{200,000}{597,704,703}$ | 8 | $\frac{107,962,376}{597,704,703}$ | 99,999 | $\frac{119,509,941}{119,549,941}$ | 8 | $\frac{21,592,472}{119,549,941}$ |
| 48,640 | 1,216,000,002 | $\frac{17}{304}$ | 1,215,999,997 | $\frac{287}{304}$ | 100,000 | $\frac{200,000}{591,462,399}$ | 8 | $\frac{132,300,808}{591,462,399}$ | 99,999 | $\frac{591,262,401}{591,462,401}$ | 8 | $\frac{132,300,792}{591,462,401}$ |
| 48,384 | 1,209,600,002 | $\frac{101}{1,512}$ | 1,209,599,997 | $\frac{1,411}{1,512}$ | 100,000 | $\frac{200,000}{585,252,863}$ | 8 | $\frac{156,377,996}{585,252,863}$ | 99,999 | $\frac{117,010,573}{117,050,573}$ | 8 | $\frac{31,275,416}{117,050,573}$ |
| 48,128 | 1,203,200,002 | $\frac{117}{1,504}$ | 1,203,199,997 | $\frac{1,387}{1,504}$ | 100,000 | $\frac{40,000}{115,815,219}$ | 8 | $\frac{36,038,248}{115,815,219}$ | 99,999 | $\frac{578,876,097}{579,076,097}$ | 8 | $\frac{180,191,224}{579,076,097}$ |
| 47,872 | 1,196,800,002 | $\frac{133}{1,496}$ | 1,196,799,997 | $\frac{1,363}{1,496}$ | 100,000 | $\frac{40,000}{114,586,419}$ | 8 | $\frac{40,748,648}{114,586,419}$ | 99,999 | $\frac{572,732,097}{572,932,097}$ | 8 | $\frac{203,743,224}{572,932,097}$ |
| 47,616 | 1,190,400,002 | $\frac{149}{1,488}$ | 1,190,399,997 | $\frac{1,339}{1,488}$ | 100,000 | $\frac{200,000}{566,820,863}$ | 8 | $\frac{227,033,996}{566,820,863}$ | 99,999 | $\frac{113,324,173}{113,364,173}$ | 8 | $\frac{45,406,616}{113,364,173}$ |
| 47,360 | 1,184,000,002 | $\frac{33}{296}$ | 1,183,999,997 | $\frac{263}{296}$ | 100,000 | $\frac{200,000}{560,742,399}$ | 8 | $\frac{250,060,808}{560,742,399}$ | 99,999 | $\frac{560,542,401}{560,742,401}$ | 8 | $\frac{250,060,792}{560,742,401}$ |
| 47,104 | 1,177,600,002 | $\frac{181}{1,472}$ | 1,177,599,997 | $\frac{1,291}{1,472}$ | 100,000 | $\frac{200,000}{554,696,703}$ | 8 | $\frac{272,826,376}{554,696,703}$ | 99,999 | $\frac{110,899,341}{110,939,341}$ | 8 | $\frac{54,565,272}{110,939,341}$ |
| 46,848 | 1,171,200,002 | $\frac{197}{1,464}$ | 1,171,199,997 | $\frac{1,267}{1,464}$ | 100,000 | $\frac{8,000}{21,947,351}$ | 8 | $\frac{11,813,192}{21,947,351}$ | 99,999 | $\frac{548,483,777}{548,683,777}$ | 8 | $\frac{295,329,784}{548,683,777}$ |
| 46,592 | 1,164,800,002 | $\frac{213}{1,456}$ | 1,164,799,997 | $\frac{1,243}{1,456}$ | 100,000 | $\frac{40,000}{108,540,723}$ | 8 | $\frac{63,514,216}{108,540,723}$ | 99,999 | $\frac{542,593,617}{542,793,617}$ | 8 | $\frac{317,571,064}{542,793,617}$ |
| 46,336 | 1,158,400,002 | $\frac{229}{1,448}$ | 1,158,399,997 | $\frac{1,219}{1,448}$ | 100,000 | $\frac{200,000}{536,756,223}$ | 8 | $\frac{339,550,216}{536,756,223}$ | 99,999 | $\frac{21,462,249}{21,470,249}$ | 8 | $\frac{13,582,008}{21,470,249}$ |
| 46,080 | 1,152,000,002 | $\frac{49}{288}$ | 1,151,999,997 | $\frac{239}{288}$ | 100,000 | $\frac{200,000}{530,841,599}$ | 8 | $\frac{361,267,208}{530,841,599}$ | 99,999 | $\frac{530,641,601}{530,841,601}$ | 8 | $\frac{361,267,192}{530,841,601}$ |
| 45,824 | 1,145,600,002 | $\frac{261}{1,432}$ | 1,145,599,997 | $\frac{1,171}{1,432}$ | 100,000 | $\frac{200,000}{524,959,743}$ | 8 | $\frac{382,722,056}{524,959,743}$ | 99,999 | $\frac{104,951,949}{104,991,949}$ | 8 | $\frac{76,544,408}{104,991,949}$ |
| 45,568 | 1,139,200,002 | $\frac{277}{1,424}$ | 1,139,199,997 | $\frac{1,147}{1,424}$ | 100,000 | $\frac{40,000}{103,822,131}$ | 8 | $\frac{80,782,952}{103,822,131}$ | 99,999 | $\frac{518,910,657}{519,110,657}$ | 8 | $\frac{493,914,744}{519,110,657}$ |
| 45,312 | 1,132,800,002 | $\frac{293}{1,416}$ | 1,132,799,997 | $\frac{1,123}{1,416}$ | 100,000 | $\frac{40,000}{102,658,867}$ | 8 | $\frac{84,969,064}{102,658,867}$ | 99,999 | $\frac{513,994,337}{513,294,337}$ | 8 | $\frac{424,845,304}{513,294,337}$ |
| 45,056 | 1,126,400,002 | $\frac{309}{1,408}$ | 1,126,399,997 | $\frac{1,099}{1,408}$ | 100,000 | $\frac{200,000}{507,510,783}$ | 8 | $\frac{445,513,736}{507,510,783}$ | 99,999 | $\frac{101,462,157}{101,502,157}$ | 8 | $\frac{89,102,744}{101,502,157}$ |
| 44,800 | 1,120,000,002 | $\frac{13}{56}$ | 1,119,999,997 | $\frac{43}{56}$ | 100,000 | $\frac{200,000}{501,759,999}$ | 8 | $\frac{465,920,008}{501,759,999}$ | 99,999 | $\frac{501,560,001}{501,760,001}$ | 8 | $\frac{465,919,992}{501,760,001}$ |
| 44,544 | 1,113,600,002 | $\frac{341}{1,392}$ | 1,113,599,997 | $\frac{1,051}{1,392}$ | 100,000 | $\frac{200,000}{496,041,983}$ | 8 | $\frac{486,064,136}{496,041,983}$ | 99,999 | $\frac{99,168,397}{99,208,397}$ | 8 | $\frac{97,212,824}{99,208,397}$ |
| 44,288 | 1,107,200,002 | $\frac{357}{1,384}$ | 1,107,199,997 | $\frac{1,027}{1,384}$ | 100,000 | $\frac{40,000}{98,071,347}$ | 9 | $\frac{3,117,877}{98,071,347}$ | 99,999 | $\frac{490,156,737}{490,356,737}$ | 9 | $\frac{15,589,367}{490,356,737}$ |
| 44,032 | 1,100,800,002 | $\frac{373}{1,376}$ | 1,100,799,997 | $\frac{1,003}{1,376}$ | 100,000 | $\frac{40,000}{96,940,851}$ | 9 | $\frac{8,172,341}{96,940,851}$ | 99,999 | $\frac{484,504,257}{484,704,257}$ | 9 | $\frac{40,861,687}{484,704,257}$ |
| 43,776 | 1,094,400,002 | $\frac{389}{1,368}$ | 1,094,399,997 | $\frac{979}{1,368}$ | 100,000 | $\frac{200,000}{479,084,543}$ | 9 | $\frac{65,839,113}{479,084,543}$ | 99,999 | $\frac{95,776,909}{95,816,909}$ | 9 | $\frac{13,167,819}{95,816,909}$ |
| 43,520 | 1,088,000,002 | $\frac{81}{272}$ | 1,087,999,997 | $\frac{191}{272}$ | 100,000 | $\frac{200,000}{473,497,599}$ | 9 | $\frac{90,521,609}{473,497,599}$ | 99,999 | $\frac{473,297,601}{473,497,601}$ | 9 | $\frac{90,521,591}{473,497,601}$ |
| 43,264 | 1,081,600,002 | $\frac{421}{1,352}$ | 1,081,599,997 | $\frac{931}{1,352}$ | 100,000 | $\frac{200,000}{467,943,423}$ | 9 | $\frac{114,909,193}{467,943,423}$ | 99,999 | $\frac{18,799,737}{18,717,737}$ | 9 | $\frac{4,596,367}{18,717,737}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | Basis | | Basis | | Perpendicularum | | Perpendicularum | | Hypotenusa | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | 17 | | |
|-----------------------|-----------------------------------|--------|-----------------------------------|----|-----------------------------------|------------------|-------------------------------|---------------|---------------------|---------------|---------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 9 | $\frac{139,001,847}{462,422,017}$ | 99,999 | $\frac{462,222,017}{462,422,017}$ | 9 | $\frac{27,800,373}{92,484,403}$ | 100,000 | $\frac{40,000}{92,484,403}$ | 1,075,199,997 | $\frac{907}{1,344}$ | 1,075,200,002 | $\frac{437}{1,344}$ | 43,008 |
| 9 | $\frac{162,799,607}{456,933,377}$ | 99,999 | $\frac{456,733,377}{456,933,377}$ | 9 | $\frac{1,302,397}{3,655,467}$ | 100,000 | $\frac{1,600}{3,655,467}$ | 1,068,799,997 | $\frac{883}{1,336}$ | 1,068,800,002 | $\frac{453}{1,336}$ | 42,752 |
| 9 | $\frac{37,260,491}{90,295,501}$ | 99,999 | $\frac{90,255,501}{90,295,501}$ | 9 | $\frac{186,302,473}{451,477,503}$ | 100,000 | $\frac{200,000}{451,477,503}$ | 1,062,399,997 | $\frac{859}{1,328}$ | 1,062,400,002 | $\frac{469}{1,328}$ | 42,496 |
| 9 | $\frac{209,510,391}{446,054,401}$ | 99,999 | $\frac{445,854,401}{446,054,401}$ | 9 | $\frac{209,510,409}{446,054,399}$ | 100,000 | $\frac{200,000}{446,054,399}$ | 1,055,999,997 | $\frac{167}{264}$ | 1,056,000,002 | $\frac{97}{264}$ | 42,240 |
| 9 | $\frac{46,484,683}{88,132,813}$ | 99,999 | $\frac{88,092,813}{88,132,813}$ | 9 | $\frac{232,423,433}{440,664,063}$ | 100,000 | $\frac{200,000}{440,664,063}$ | 1,049,599,997 | $\frac{811}{1,312}$ | 1,049,600,002 | $\frac{501}{1,312}$ | 41,984 |
| 9 | $\frac{255,041,527}{435,306,497}$ | 99,999 | $\frac{435,100,497}{435,306,497}$ | 9 | $\frac{51,008,309}{87,061,299}$ | 100,000 | $\frac{40,000}{87,061,299}$ | 1,043,199,997 | $\frac{787}{1,304}$ | 1,043,200,002 | $\frac{517}{1,304}$ | 41,728 |
| 9 | $\frac{277,364,727}{429,981,697}$ | 99,999 | $\frac{429,781,697}{429,981,697}$ | 9 | $\frac{55,472,949}{85,996,339}$ | 100,000 | $\frac{40,000}{85,996,339}$ | 1,036,799,997 | $\frac{763}{1,296}$ | 1,036,800,002 | $\frac{533}{1,296}$ | 41,472 |
| 9 | $\frac{59,878,603}{84,937,933}$ | 99,999 | $\frac{84,897,933}{84,937,933}$ | 9 | $\frac{299,393,933}{424,689,663}$ | 100,000 | $\frac{200,000}{424,689,663}$ | 1,030,399,997 | $\frac{739}{1,288}$ | 1,030,400,002 | $\frac{549}{1,288}$ | 41,216 |
| 9 | $\frac{321,126,391}{419,430,401}$ | 99,999 | $\frac{419,230,401}{419,430,401}$ | 9 | $\frac{321,126,409}{419,430,399}$ | 100,000 | $\frac{200,000}{419,430,399}$ | 1,023,999,997 | $\frac{143}{256}$ | 1,024,000,002 | $\frac{113}{256}$ | 40,960 |
| 9 | $\frac{68,512,971}{82,840,781}$ | 99,999 | $\frac{82,800,781}{82,840,781}$ | 9 | $\frac{342,564,873}{414,203,903}$ | 100,000 | $\frac{200,000}{414,203,903}$ | 1,017,599,997 | $\frac{691}{1,272}$ | 1,017,600,002 | $\frac{581}{1,272}$ | 40,704 |
| 9 | $\frac{363,708,407}{409,010,177}$ | 99,999 | $\frac{408,810,177}{409,010,177}$ | 9 | $\frac{14,548,337}{16,360,407}$ | 100,000 | $\frac{8,000}{16,360,407}$ | 1,011,199,997 | $\frac{667}{1,264}$ | 1,011,200,002 | $\frac{597}{1,264}$ | 40,448 |
| 9 | $\frac{384,557,047}{403,849,217}$ | 99,999 | $\frac{403,649,217}{403,849,217}$ | 9 | $\frac{76,911,413}{80,769,843}$ | 100,000 | $\frac{40,000}{80,769,843}$ | 1,004,799,997 | $\frac{643}{1,256}$ | 1,004,800,002 | $\frac{613}{1,256}$ | 40,192 |
| 10 | $\frac{255,590}{15,948,841}$ | 99,999 | $\frac{15,940,841}{15,948,841}$ | 10 | $\frac{6,389,770}{398,721,023}$ | 100,000 | $\frac{200,000}{398,721,023}$ | 998,399,997 | $\frac{619}{1,248}$ | 998,400,002 | $\frac{629}{1,248}$ | 39,936 |
| 10 | $\frac{31,743,990}{393,625,601}$ | 99,999 | $\frac{393,425,601}{393,625,601}$ | 10 | $\frac{31,744,010}{393,625,599}$ | 100,000 | $\frac{200,000}{393,625,599}$ | 991,999,997 | $\frac{119}{248}$ | 992,000,002 | $\frac{129}{248}$ | 39,680 |
| 10 | $\frac{11,354,110}{77,712,589}$ | 99,999 | $\frac{77,672,589}{77,712,589}$ | 10 | $\frac{56,770,570}{388,562,943}$ | 100,000 | $\frac{200,000}{388,562,943}$ | 985,599,997 | $\frac{571}{1,232}$ | 985,600,002 | $\frac{661}{1,232}$ | 39,424 |
| 10 | $\frac{81,469,430}{383,533,057}$ | 99,999 | $\frac{383,333,057}{383,533,057}$ | 10 | $\frac{16,293,890}{76,706,611}$ | 100,000 | $\frac{40,000}{76,706,611}$ | 979,199,997 | $\frac{547}{1,224}$ | 979,200,002 | $\frac{677}{1,224}$ | 39,168 |
| 10 | $\frac{105,840,630}{378,535,937}$ | 99,999 | $\frac{378,335,937}{378,535,937}$ | 10 | $\frac{21,168,130}{75,707,187}$ | 100,000 | $\frac{40,000}{75,707,187}$ | 972,799,997 | $\frac{523}{1,216}$ | 972,800,002 | $\frac{693}{1,216}$ | 38,912 |
| 10 | $\frac{25,976,830}{74,714,317}$ | 99,999 | $\frac{74,674,317}{74,714,317}$ | 10 | $\frac{129,884,170}{373,571,583}$ | 100,000 | $\frac{200,000}{373,571,583}$ | 966,399,997 | $\frac{499}{1,208}$ | 966,400,002 | $\frac{709}{1,208}$ | 38,656 |
| 10 | $\frac{153,599,990}{368,640,001}$ | 99,999 | $\frac{368,440,001}{368,640,001}$ | 10 | $\frac{153,600,010}{368,639,999}$ | 100,000 | $\frac{200,000}{368,639,999}$ | 959,999,997 | $\frac{19}{48}$ | 960,000,002 | $\frac{29}{48}$ | 38,400 |
| 10 | $\frac{35,397,630}{72,748,237}$ | 99,999 | $\frac{72,708,237}{72,748,237}$ | 10 | $\frac{176,988,170}{363,741,183}$ | 100,000 | $\frac{200,000}{363,741,183}$ | 953,599,997 | $\frac{451}{1,192}$ | 953,600,002 | $\frac{741}{1,192}$ | 38,144 |
| 10 | $\frac{200,048,630}{358,875,137}$ | 99,999 | $\frac{358,675,137}{358,875,137}$ | 10 | $\frac{40,009,730}{71,775,027}$ | 100,000 | $\frac{40,000}{71,775,027}$ | 947,199,997 | $\frac{427}{1,184}$ | 947,200,002 | $\frac{757}{1,184}$ | 37,888 |
| 10 | $\frac{222,781,430}{354,041,857}$ | 99,999 | $\frac{353,841,857}{354,041,857}$ | 10 | $\frac{44,556,290}{70,808,371}$ | 100,000 | $\frac{40,000}{70,808,371}$ | 940,799,997 | $\frac{403}{1,176}$ | 940,800,002 | $\frac{773}{1,176}$ | 37,632 |
| 10 | $\frac{49,037,310}{69,848,269}$ | 99,999 | $\frac{69,808,269}{69,848,269}$ | 10 | $\frac{245,186,570}{349,241,343}$ | 100,000 | $\frac{200,000}{349,241,343}$ | 934,399,997 | $\frac{379}{1,168}$ | 934,400,002 | $\frac{789}{1,168}$ | 37,376 |
| 10 | $\frac{267,263,990}{344,473,601}$ | 99,999 | $\frac{344,273,601}{344,473,601}$ | 10 | $\frac{267,264,010}{344,473,599}$ | 100,000 | $\frac{200,000}{344,473,599}$ | 927,999,997 | $\frac{71}{232}$ | 928,000,002 | $\frac{161}{232}$ | 37,120 |
| 10 | $\frac{2,312,110}{2,717,909}$ | 99,999 | $\frac{2,716,309}{2,717,909}$ | 10 | $\frac{289,013,770}{339,738,623}$ | 100,000 | $\frac{200,000}{339,738,623}$ | 921,599,997 | $\frac{331}{1,152}$ | 921,600,002 | $\frac{821}{1,152}$ | 36,864 |
| 10 | $\frac{310,435,830}{335,036,417}$ | 99,999 | $\frac{334,836,417}{335,036,417}$ | 10 | $\frac{62,087,170}{67,007,283}$ | 100,000 | $\frac{40,000}{67,007,283}$ | 915,199,997 | $\frac{307}{1,144}$ | 915,200,002 | $\frac{837}{1,144}$ | 36,608 |
| 11 | $\frac{1,163,253}{330,366,977}$ | 99,999 | $\frac{330,166,977}{330,366,977}$ | 11 | $\frac{46,531}{13,214,679}$ | 100,000 | $\frac{8,000}{13,214,679}$ | 908,799,997 | $\frac{283}{1,136}$ | 908,800,002 | $\frac{853}{1,136}$ | 36,352 |
| 11 | $\frac{5,313,329}{65,146,061}$ | 99,999 | $\frac{65,106,061}{65,146,061}$ | 11 | $\frac{26,566,667}{325,739,393}$ | 100,000 | $\frac{200,000}{325,739,393}$ | 902,399,997 | $\frac{259}{1,128}$ | 902,400,002 | $\frac{869}{1,128}$ | 36,096 |
| 11 | $\frac{51,609,589}{321,126,401}$ | 99,999 | $\frac{320,926,401}{321,126,401}$ | 11 | $\frac{51,609,611}{321,126,399}$ | 100,000 | $\frac{200,000}{321,126,399}$ | 895,999,997 | $\frac{47}{224}$ | 896,000,002 | $\frac{177}{224}$ | 35,840 |
| 11 | $\frac{15,258,417}{63,311,053}$ | 99,999 | $\frac{63,271,053}{63,311,053}$ | 11 | $\frac{76,292,107}{316,555,263}$ | 100,000 | $\frac{200,000}{316,555,263}$ | 889,599,997 | $\frac{211}{1,112}$ | 889,600,002 | $\frac{901}{1,112}$ | 35,584 |
| 11 | $\frac{100,614,133}{312,016,897}$ | 99,999 | $\frac{311,816,897}{312,016,897}$ | 11 | $\frac{20,122,831}{62,403,379}$ | 100,000 | $\frac{40,000}{62,403,379}$ | 883,199,997 | $\frac{187}{1,104}$ | 883,200,002 | $\frac{917}{1,104}$ | 35,328 |
| 11 | $\frac{124,575,733}{307,511,297}$ | 99,999 | $\frac{307,371,297}{307,511,297}$ | 11 | $\frac{24,915,151}{61,502,259}$ | 100,000 | $\frac{40,000}{61,502,259}$ | 876,799,997 | $\frac{163}{1,096}$ | 876,800,002 | $\frac{933}{1,096}$ | 35,072 |
| 11 | $\frac{29,635,377}{60,607,693}$ | 99,999 | $\frac{60,567,693}{60,607,693}$ | 11 | $\frac{148,176,907}{303,038,463}$ | 100,000 | $\frac{200,000}{303,038,463}$ | 870,399,997 | $\frac{139}{1,088}$ | 870,400,002 | $\frac{949}{1,088}$ | 34,816 |
| 11 | $\frac{171,417,589}{298,598,401}$ | 99,999 | $\frac{298,398,401}{298,598,401}$ | 11 | $\frac{171,417,611}{298,598,399}$ | 100,000 | $\frac{200,000}{298,598,399}$ | 863,999,997 | $\frac{23}{216}$ | 864,000,002 | $\frac{193}{216}$ | 34,560 |
| <i>Basis</i> | | | <i>Perpendicularum</i> | | | <i>Basis</i> | | | <i>Hypotenusa</i> | | | Numeri primi Baseos |
| 100,000 Hypotenusa | | | 100,000 Perpendicularum | | | 100,000 Basis | | | Hypotenusa | | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 18 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-----------------------|------------------------|-----------------------|-------------------|-------------------------------|-----------------|-----------------------------------|------------------------|-----------------------------------|--------------|-----------------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 34,304 | 857,600,002 | $\frac{981}{1,072}$ | 857,599,997 | $\frac{91}{1,072}$ | 100,000 | $\frac{200,000}{294,191,103}$ | 11 | $\frac{194,297,867}{294,191,103}$ | 99,999 | $\frac{58,798,221}{58,838,221}$ | 11 | $\frac{38,859,569}{58,838,221}$ |
| 34,048 | 851,200,002 | $\frac{997}{1,064}$ | 851,199,997 | $\frac{67}{1,064}$ | 100,000 | $\frac{8,000}{11,592,663}$ | 11 | $\frac{8,672,707}{11,592,663}$ | 99,999 | $\frac{289,616,577}{289,816,577}$ | 11 | $\frac{216,817,653}{289,816,577}$ |
| 33,792 | 844,800,002 | $\frac{1,013}{1,056}$ | 844,799,997 | $\frac{43}{1,056}$ | 100,000 | $\frac{40,000}{57,094,963}$ | 11 | $\frac{47,795,407}{57,094,963}$ | 99,999 | $\frac{285,274,817}{285,474,817}$ | 11 | $\frac{238,977,913}{285,474,817}$ |
| 33,536 | 838,400,002 | $\frac{1,029}{1,048}$ | 838,399,997 | $\frac{19}{1,048}$ | 100,000 | $\frac{200,000}{281,165,823}$ | 11 | $\frac{260,775,947}{281,165,823}$ | 99,999 | $\frac{11,238,633}{11,246,633}$ | 11 | $\frac{10,431,037}{11,246,633}$ |
| 33,280 | 832,000,003 | $\frac{1}{208}$ | 831,999,996 | $\frac{207}{208}$ | 100,000 | $\frac{200,000}{276,889,599}$ | 12 | $\frac{5,324,812}{276,889,599}$ | 99,999 | $\frac{276,689,601}{276,889,601}$ | 12 | $\frac{5,324,788}{276,889,601}$ |
| 33,024 | 825,600,003 | $\frac{29}{1,032}$ | 825,599,996 | $\frac{1,003}{1,032}$ | 100,000 | $\frac{200,000}{272,646,143}$ | 12 | $\frac{30,646,284}{272,646,143}$ | 99,999 | $\frac{54,489,229}{54,529,229}$ | 12 | $\frac{6,129,252}{54,529,229}$ |
| 32,768 | 819,200,003 | $\frac{53}{1,024}$ | 819,199,996 | $\frac{971}{1,024}$ | 100,000 | $\frac{40,000}{53,687,091}$ | 12 | $\frac{11,114,908}{53,687,091}$ | 99,999 | $\frac{268,235,457}{268,435,457}$ | 12 | $\frac{55,574,516}{268,435,457}$ |
| 32,512 | 812,800,003 | $\frac{77}{1,016}$ | 812,799,996 | $\frac{939}{1,016}$ | 100,000 | $\frac{40,000}{52,851,507}$ | 12 | $\frac{16,021,916}{52,851,507}$ | 99,999 | $\frac{264,057,537}{264,257,537}$ | 12 | $\frac{80,109,556}{264,257,537}$ |
| 32,256 | 806,400,003 | $\frac{101}{1,008}$ | 806,399,996 | $\frac{907}{1,008}$ | 100,000 | $\frac{200,000}{260,112,383}$ | 12 | $\frac{104,251,404}{260,112,383}$ | 99,999 | $\frac{51,982,477}{52,022,477}$ | 12 | $\frac{20,850,276}{52,022,477}$ |
| 32,000 | 800,000,003 | $\frac{1}{8}$ | 799,999,996 | $\frac{7}{8}$ | 100,000 | $\frac{200,000}{255,999,999}$ | 12 | $\frac{128,000,012}{255,999,999}$ | 99,999 | $\frac{255,800,001}{256,000,001}$ | 12 | $\frac{127,999,988}{256,000,001}$ |
| 31,744 | 793,600,003 | $\frac{149}{992}$ | 793,599,996 | $\frac{843}{992}$ | 100,000 | $\frac{200,000}{251,920,383}$ | 12 | $\frac{151,355,404}{251,920,383}$ | 99,999 | $\frac{50,344,077}{50,384,077}$ | 12 | $\frac{30,271,076}{50,384,077}$ |
| 31,488 | 787,200,003 | $\frac{173}{984}$ | 787,199,996 | $\frac{811}{984}$ | 100,000 | $\frac{40,000}{49,574,707}$ | 12 | $\frac{34,863,516}{49,574,707}$ | 99,999 | $\frac{247,673,537}{247,873,537}$ | 12 | $\frac{174,317,556}{247,873,537}$ |
| 31,232 | 780,800,003 | $\frac{197}{976}$ | 780,799,996 | $\frac{779}{976}$ | 100,000 | $\frac{40,000}{48,771,891}$ | 12 | $\frac{39,377,308}{48,771,891}$ | 99,999 | $\frac{243,659,457}{243,859,457}$ | 12 | $\frac{196,886,516}{243,859,457}$ |
| 30,976 | 774,400,003 | $\frac{221}{968}$ | 774,399,996 | $\frac{747}{968}$ | 100,000 | $\frac{200,000}{239,878,143}$ | 12 | $\frac{219,062,284}{239,878,143}$ | 99,999 | $\frac{47,935,629}{47,975,629}$ | 12 | $\frac{43,812,452}{47,975,629}$ |
| 30,720 | 768,000,003 | $\frac{49}{192}$ | 767,999,996 | $\frac{143}{192}$ | 100,000 | $\frac{200,000}{235,929,599}$ | 13 | $\frac{4,915,213}{235,929,599}$ | 99,999 | $\frac{235,729,601}{235,929,601}$ | 13 | $\frac{4,915,187}{235,929,601}$ |
| 30,464 | 761,600,003 | $\frac{269}{952}$ | 761,599,996 | $\frac{683}{952}$ | 100,000 | $\frac{200,000}{232,013,823}$ | 13 | $\frac{30,220,301}{232,013,823}$ | 99,999 | $\frac{9,272,553}{9,280,553}$ | 13 | $\frac{1,208,811}{9,280,553}$ |
| 30,208 | 755,200,003 | $\frac{293}{944}$ | 755,199,996 | $\frac{651}{944}$ | 100,000 | $\frac{40,000}{45,626,163}$ | 13 | $\frac{11,019,881}{45,626,163}$ | 99,999 | $\frac{227,930,817}{228,130,817}$ | 13 | $\frac{55,099,379}{228,130,817}$ |
| 29,952 | 748,800,003 | $\frac{317}{936}$ | 748,799,996 | $\frac{619}{936}$ | 100,000 | $\frac{8,000}{8,971,223}$ | 13 | $\frac{3,182,101}{8,971,223}$ | 99,999 | $\frac{224,080,577}{224,280,577}$ | 13 | $\frac{79,552,499}{224,280,577}$ |
| 29,696 | 742,400,003 | $\frac{341}{928}$ | 742,399,996 | $\frac{587}{928}$ | 100,000 | $\frac{200,000}{220,463,103}$ | 13 | $\frac{103,579,661}{220,463,103}$ | 99,999 | $\frac{44,052,621}{44,092,621}$ | 13 | $\frac{20,715,927}{44,092,621}$ |
| 29,440 | 736,000,003 | $\frac{73}{184}$ | 735,999,996 | $\frac{111}{184}$ | 100,000 | $\frac{200,000}{216,678,399}$ | 13 | $\frac{127,180,813}{216,678,399}$ | 99,999 | $\frac{216,478,401}{216,678,401}$ | 13 | $\frac{127,180,787}{216,678,401}$ |
| 29,184 | 729,600,003 | $\frac{389}{912}$ | 729,599,996 | $\frac{523}{912}$ | 100,000 | $\frac{200,000}{212,926,463}$ | 13 | $\frac{150,355,981}{212,926,463}$ | 99,999 | $\frac{42,545,293}{42,585,293}$ | 13 | $\frac{30,071,191}{42,585,293}$ |
| 28,928 | 723,200,003 | $\frac{413}{904}$ | 723,199,996 | $\frac{491}{904}$ | 100,000 | $\frac{40,000}{41,841,459}$ | 13 | $\frac{34,621,933}{41,841,459}$ | 99,999 | $\frac{209,007,297}{209,207,297}$ | 13 | $\frac{173,105,139}{209,207,297}$ |
| 28,672 | 716,800,003 | $\frac{437}{896}$ | 716,799,996 | $\frac{459}{896}$ | 100,000 | $\frac{40,000}{41,104,179}$ | 13 | $\frac{39,085,673}{41,104,179}$ | 99,999 | $\frac{205,320,897}{205,520,897}$ | 13 | $\frac{195,428,339}{205,520,897}$ |
| 28,416 | 710,400,003 | $\frac{461}{888}$ | 710,399,996 | $\frac{427}{888}$ | 100,000 | $\frac{200,000}{201,867,263}$ | 14 | $\frac{15,458,318}{201,867,263}$ | 99,999 | $\frac{40,333,453}{40,373,453}$ | 14 | $\frac{3,091,658}{40,373,453}$ |
| 28,160 | 704,000,003 | $\frac{97}{176}$ | 703,999,996 | $\frac{79}{176}$ | 100,000 | $\frac{200,000}{198,246,399}$ | 14 | $\frac{40,550,414}{198,246,399}$ | 99,999 | $\frac{198,046,401}{198,246,401}$ | 14 | $\frac{40,550,386}{198,246,401}$ |
| 27,904 | 697,600,003 | $\frac{599}{872}$ | 697,599,996 | $\frac{363}{872}$ | 100,000 | $\frac{200,000}{194,658,303}$ | 14 | $\frac{65,183,758}{194,658,303}$ | 99,999 | $\frac{38,891,661}{38,931,661}$ | 14 | $\frac{13,036,746}{38,931,661}$ |
| 27,648 | 691,200,003 | $\frac{533}{864}$ | 691,199,996 | $\frac{331}{864}$ | 100,000 | $\frac{8,000}{7,644,119}$ | 14 | $\frac{3,574,334}{7,644,119}$ | 99,999 | $\frac{190,902,977}{191,102,977}$ | 14 | $\frac{89,358,322}{191,102,977}$ |
| 27,392 | 684,800,003 | $\frac{557}{856}$ | 684,799,996 | $\frac{299}{856}$ | 100,000 | $\frac{40,000}{37,516,083}$ | 14 | $\frac{22,614,838}{37,516,083}$ | 99,999 | $\frac{187,380,417}{187,580,417}$ | 14 | $\frac{113,074,162}{187,580,417}$ |
| 27,136 | 678,400,003 | $\frac{581}{848}$ | 678,399,996 | $\frac{267}{848}$ | 100,000 | $\frac{200,000}{184,090,623}$ | 14 | $\frac{136,331,278}{184,090,623}$ | 99,999 | $\frac{58,845}{58,909}$ | 14 | $\frac{43,626}{58,909}$ |
| 26,880 | 672,000,003 | $\frac{121}{168}$ | 671,999,996 | $\frac{47}{168}$ | 100,000 | $\frac{200,000}{180,633,599}$ | 14 | $\frac{159,129,614}{180,633,599}$ | 99,999 | $\frac{180,433,601}{180,633,601}$ | 14 | $\frac{159,129,586}{180,633,601}$ |
| 26,624 | 665,600,003 | $\frac{629}{832}$ | 665,599,996 | $\frac{203}{832}$ | 100,000 | $\frac{200,000}{177,209,343}$ | 15 | $\frac{4,259,855}{177,209,343}$ | 99,999 | $\frac{35,401,869}{35,441,869}$ | 15 | $\frac{851,065}{35,441,869}$ |
| 26,368 | 659,200,003 | $\frac{653}{824}$ | 659,199,996 | $\frac{171}{824}$ | 100,000 | $\frac{40,000}{34,763,571}$ | 15 | $\frac{5,906,435}{34,763,571}$ | 99,999 | $\frac{173,617,857}{173,817,857}$ | 15 | $\frac{29,532,145}{173,817,857}$ |
| 26,112 | 652,800,003 | $\frac{677}{816}$ | 652,799,996 | $\frac{139}{816}$ | 100,000 | $\frac{40,000}{34,091,827}$ | 15 | $\frac{10,862,595}{34,091,827}$ | 99,999 | $\frac{170,259,137}{170,459,137}$ | 15 | $\frac{54,312,945}{170,459,137}$ |
| 25,856 | 646,400,003 | $\frac{701}{808}$ | 646,399,996 | $\frac{107}{808}$ | 100,000 | $\frac{200,000}{167,133,183}$ | 15 | $\frac{78,602,255}{167,133,183}$ | 99,999 | $\frac{33,386,637}{33,426,637}$ | 15 | $\frac{15,720,445}{33,426,637}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | Basis | | Basis | | Perpendicularum | | Perpendicularum | | Hypotenusa | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| CANONION TRIANGVLORVM | | | | | | | | | | | | |
|-----------------------|-------------------|------------------------|-------------|-------------------|-------------------|-------------------------------|-----------|-----------------------------------|------------------------|-----------------------------------|--------------|-----------------------------------|
| 20 | SERIES III. | | | SERIES II. | | | SERIES I. | | | | | |
| 21,504 | 537,600,004 | $\frac{437}{672}$ | 537,599,995 | $\frac{235}{672}$ | 100,000 | $\frac{200,000}{115,605,503}$ | 18 | $\frac{69,500,946}{115,605,503}$ | 99,999 | $\frac{23,081,101}{23,121,101}$ | 18 | $\frac{13,900,182}{23,121,101}$ |
| 21,376 | 534,400,004 | $\frac{453}{668}$ | 534,399,995 | $\frac{215}{668}$ | 100,000 | $\frac{200,000}{114,233,343}$ | 18 | $\frac{81,399,826}{114,233,343}$ | 99,999 | $\frac{22,806,669}{22,846,669}$ | 18 | $\frac{16,279,958}{22,846,669}$ |
| 21,248 | 531,200,004 | $\frac{469}{664}$ | 531,199,995 | $\frac{195}{664}$ | 100,000 | $\frac{320}{180,591}$ | 18 | $\frac{149,042}{180,591}$ | 99,999 | $\frac{112,669,377}{112,869,377}$ | 18 | $\frac{93,151,214}{112,869,377}$ |
| 21,120 | 528,000,004 | $\frac{97}{132}$ | 527,999,995 | $\frac{35}{132}$ | 100,000 | $\frac{200,000}{111,513,599}$ | 18 | $\frac{104,755,218}{111,513,599}$ | 99,999 | $\frac{111,313,601}{111,513,601}$ | 18 | $\frac{104,755,182}{111,513,601}$ |
| 20,992 | 524,800,004 | $\frac{501}{656}$ | 524,799,995 | $\frac{155}{656}$ | 100,000 | $\frac{40,000}{22,033,203}$ | 19 | $\frac{1,209,143}{22,033,203}$ | 99,999 | $\frac{109,966,017}{110,166,017}$ | 19 | $\frac{6,045,677}{110,166,017}$ |
| 20,864 | 521,600,004 | $\frac{517}{652}$ | 521,599,995 | $\frac{135}{652}$ | 100,000 | $\frac{200,000}{108,826,623}$ | 19 | $\frac{18,694,163}{108,826,623}$ | 99,999 | $\frac{869,013}{870,613}$ | 19 | $\frac{149,553}{870,613}$ |
| 20,736 | 518,400,004 | $\frac{533}{648}$ | 518,399,995 | $\frac{115}{648}$ | 100,000 | $\frac{200,000}{107,495,423}$ | 19 | $\frac{31,186,963}{107,495,423}$ | 99,999 | $\frac{4,291,817}{4,299,817}$ | 19 | $\frac{1,247,477}{4,299,817}$ |
| 20,608 | 515,200,004 | $\frac{549}{644}$ | 515,199,995 | $\frac{95}{644}$ | 100,000 | $\frac{40,000}{21,234,483}$ | 19 | $\frac{8,704,823}{21,234,483}$ | 99,999 | $\frac{105,972,417}{106,172,417}$ | 19 | $\frac{43,524,977}{106,172,417}$ |
| 20,480 | 512,000,004 | $\frac{113}{128}$ | 511,999,995 | $\frac{15}{128}$ | 100,000 | $\frac{200,000}{104,857,599}$ | 19 | $\frac{55,705,619}{104,857,599}$ | 99,999 | $\frac{104,657,601}{104,857,601}$ | 19 | $\frac{55,705,581}{104,857,601}$ |
| 20,352 | 508,800,004 | $\frac{581}{636}$ | 508,799,995 | $\frac{55}{636}$ | 100,000 | $\frac{8,000}{4,142,039}$ | 19 | $\frac{2,709,259}{4,142,039}$ | 99,999 | $\frac{103,359,977}{103,559,977}$ | 19 | $\frac{67,731,437}{103,559,977}$ |
| 20,224 | 505,600,004 | $\frac{597}{632}$ | 505,599,995 | $\frac{35}{632}$ | 100,000 | $\frac{200,000}{102,252,543}$ | 19 | $\frac{79,601,683}{102,252,543}$ | 99,999 | $\frac{20,410,509}{20,450,509}$ | 19 | $\frac{15,920,329}{20,450,509}$ |
| 20,096 | 502,400,004 | $\frac{613}{628}$ | 502,399,995 | $\frac{15}{628}$ | 100,000 | $\frac{200,000}{100,962,303}$ | 19 | $\frac{91,316,243}{100,962,303}$ | 99,999 | $\frac{20,152,461}{20,192,461}$ | 19 | $\frac{18,263,241}{20,192,461}$ |
| 19,968 | 499,200,005 | $\frac{5}{624}$ | 499,199,994 | $\frac{619}{624}$ | 100,000 | $\frac{40,000}{19,936,051}$ | 20 | $\frac{638,980}{19,936,051}$ | 99,999 | $\frac{99,480,257}{99,680,257}$ | 20 | $\frac{3,194,860}{99,680,257}$ |
| 19,840 | 496,000,005 | $\frac{5}{124}$ | 495,999,994 | $\frac{119}{124}$ | 100,000 | $\frac{200,000}{98,406,399}$ | 20 | $\frac{15,872,020}{98,406,399}$ | 99,999 | $\frac{98,206,401}{98,406,401}$ | 20 | $\frac{15,871,980}{98,406,401}$ |
| 19,712 | 492,800,005 | $\frac{45}{616}$ | 492,799,994 | $\frac{571}{616}$ | 100,000 | $\frac{40,000}{19,428,147}$ | 20 | $\frac{5,677,060}{19,428,147}$ | 99,999 | $\frac{96,949,737}{97,149,737}$ | 20 | $\frac{28,385,260}{97,149,737}$ |
| 19,584 | 489,600,005 | $\frac{65}{612}$ | 489,599,994 | $\frac{547}{612}$ | 100,000 | $\frac{200,000}{95,883,263}$ | 20 | $\frac{40,734,740}{95,883,263}$ | 99,999 | $\frac{19,136,653}{19,176,653}$ | 20 | $\frac{8,146,940}{19,176,653}$ |
| 19,456 | 486,400,005 | $\frac{85}{608}$ | 486,399,994 | $\frac{523}{608}$ | 100,000 | $\frac{200,000}{94,633,983}$ | 20 | $\frac{52,920,340}{94,633,983}$ | 99,999 | $\frac{18,886,797}{18,926,797}$ | 20 | $\frac{10,584,060}{18,926,797}$ |
| 19,328 | 483,200,005 | $\frac{105}{604}$ | 483,199,994 | $\frac{499}{604}$ | 100,000 | $\frac{40,000}{18,678,579}$ | 20 | $\frac{12,988,420}{18,678,579}$ | 99,999 | $\frac{93,192,897}{93,392,897}$ | 20 | $\frac{64,942,060}{93,392,897}$ |
| 19,200 | 480,000,005 | $\frac{5}{24}$ | 479,999,994 | $\frac{19}{24}$ | 100,000 | $\frac{200,000}{92,159,999}$ | 20 | $\frac{76,800,020}{92,159,999}$ | 99,999 | $\frac{91,960,001}{92,160,001}$ | 20 | $\frac{76,799,980}{92,160,001}$ |
| 19,072 | 476,800,005 | $\frac{145}{596}$ | 476,799,994 | $\frac{451}{596}$ | 100,000 | $\frac{40,000}{18,187,059}$ | 20 | $\frac{17,698,820}{18,187,059}$ | 99,999 | $\frac{90,735,297}{90,935,297}$ | 20 | $\frac{88,494,060}{90,935,297}$ |
| 18,944 | 473,600,005 | $\frac{165}{592}$ | 473,599,994 | $\frac{427}{592}$ | 100,000 | $\frac{200,000}{89,718,783}$ | 21 | $\frac{10,305,557}{89,718,783}$ | 99,999 | $\frac{17,993,757}{17,943,757}$ | 21 | $\frac{2,061,103}{17,943,757}$ |
| 18,816 | 470,400,005 | $\frac{185}{588}$ | 470,399,994 | $\frac{403}{588}$ | 100,000 | $\frac{200,000}{88,510,463}$ | 21 | $\frac{22,880,277}{88,510,463}$ | 99,999 | $\frac{17,662,093}{17,702,093}$ | 21 | $\frac{4,576,047}{17,702,093}$ |
| 18,688 | 467,200,005 | $\frac{205}{584}$ | 467,199,994 | $\frac{379}{584}$ | 100,000 | $\frac{40,000}{17,462,067}$ | 21 | $\frac{7,056,593}{17,462,067}$ | 99,999 | $\frac{87,110,337}{87,310,337}$ | 21 | $\frac{35,282,923}{87,310,337}$ |
| 18,560 | 464,000,005 | $\frac{45}{116}$ | 463,999,994 | $\frac{71}{116}$ | 100,000 | $\frac{200,000}{86,118,399}$ | 21 | $\frac{47,513,621}{86,118,399}$ | 99,999 | $\frac{85,918,401}{86,118,401}$ | 21 | $\frac{47,513,579}{86,118,401}$ |
| 18,432 | 460,800,005 | $\frac{245}{576}$ | 460,799,994 | $\frac{331}{576}$ | 100,000 | $\frac{40,000}{16,986,931}$ | 21 | $\frac{11,914,449}{16,986,931}$ | 99,999 | $\frac{84,734,657}{84,934,657}$ | 21 | $\frac{59,572,203}{84,934,657}$ |
| 18,304 | 457,600,005 | $\frac{265}{572}$ | 457,599,994 | $\frac{307}{572}$ | 100,000 | $\frac{200,000}{83,759,103}$ | 21 | $\frac{71,458,837}{83,759,103}$ | 99,999 | $\frac{16,711,821}{16,751,821}$ | 21 | $\frac{14,291,759}{16,751,821}$ |
| 18,176 | 454,400,005 | $\frac{285}{568}$ | 454,399,994 | $\frac{283}{568}$ | 100,000 | $\frac{200,000}{82,591,743}$ | 22 | $\frac{581,654}{82,591,743}$ | 99,999 | $\frac{16,478,349}{16,518,349}$ | 22 | $\frac{116,322}{16,518,349}$ |
| 18,048 | 451,200,005 | $\frac{305}{564}$ | 451,199,994 | $\frac{259}{564}$ | 100,000 | $\frac{8,000}{3,257,393}$ | 22 | $\frac{531,334}{3,257,393}$ | 99,999 | $\frac{81,232,577}{81,432,577}$ | 22 | $\frac{13,283,306}{81,432,577}$ |
| 17,920 | 448,000,005 | $\frac{65}{112}$ | 447,999,994 | $\frac{47}{112}$ | 100,000 | $\frac{200,000}{80,281,599}$ | 22 | $\frac{25,804,822}{80,281,599}$ | 99,999 | $\frac{80,081,601}{80,281,601}$ | 22 | $\frac{25,804,778}{80,281,601}$ |
| 17,792 | 444,800,005 | $\frac{345}{556}$ | 444,799,994 | $\frac{211}{556}$ | 100,000 | $\frac{40,000}{15,827,763}$ | 22 | $\frac{7,629,214}{15,827,763}$ | 99,999 | $\frac{78,938,817}{79,138,817}$ | 22 | $\frac{38,146,026}{79,138,817}$ |
| 17,664 | 441,600,005 | $\frac{365}{552}$ | 441,599,994 | $\frac{187}{552}$ | 100,000 | $\frac{200,000}{78,004,223}$ | 22 | $\frac{50,307,094}{78,004,223}$ | 99,999 | $\frac{3,112,169}{3,120,169}$ | 22 | $\frac{2,012,282}{3,120,169}$ |
| 17,536 | 438,400,005 | $\frac{385}{548}$ | 438,399,994 | $\frac{163}{548}$ | 100,000 | $\frac{200,000}{76,877,823}$ | 22 | $\frac{62,287,894}{76,877,823}$ | 99,999 | $\frac{3,067,113}{3,075,113}$ | 22 | $\frac{2,491,514}{3,075,113}$ |
| 17,408 | 435,200,005 | $\frac{405}{544}$ | 435,199,994 | $\frac{139}{544}$ | 100,000 | $\frac{40,000}{15,151,923}$ | 22 | $\frac{14,817,694}{15,151,923}$ | 99,999 | $\frac{75,559,617}{75,759,617}$ | 22 | $\frac{74,088,426}{75,759,617}$ |
| 17,280 | 432,000,005 | $\frac{85}{108}$ | 431,999,994 | $\frac{23}{108}$ | 100,000 | $\frac{200,000}{74,649,599}$ | 23 | $\frac{11,059,223}{74,649,599}$ | 99,999 | $\frac{74,449,601}{74,649,601}$ | 23 | $\frac{11,059,177}{74,649,601}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | <i>Perpendicularum</i> | 100,000 | <i>Hypotenusa</i> | <i>Hypotenusa</i> | <i>Basis</i> | 100,000 | <i>Perpendicularum</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Basis</i> |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 21 | |
|---------------------|---------------------------------|------------------------|---------------------------------|-----------------|---------------------------------|-------------------|------------------------------|------------------------|-------------------|-------------------|-------------------|----------------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 23 | $\frac{23,601,129}{73,547,777}$ | 99,999 | $\frac{73,347,777}{73,547,777}$ | 23 | $\frac{944,047}{2,941,911}$ | 100,000 | $\frac{8,000}{2,941,911}$ | 428,799,994 | $\frac{91}{536}$ | 428,800,005 | $\frac{445}{536}$ | 17,152 |
| 23 | $\frac{7,190,933}{14,490,829}$ | 99,999 | $\frac{14,450,829}{14,490,829}$ | 23 | $\frac{35,954,711}{72,454,143}$ | 100,000 | $\frac{200,000}{72,454,143}$ | 425,599,994 | $\frac{67}{532}$ | 425,600,005 | $\frac{465}{532}$ | 17,024 |
| 23 | $\frac{9,623,957}{14,273,741}$ | 99,999 | $\frac{14,233,741}{14,273,741}$ | 23 | $\frac{48,119,831}{71,368,703}$ | 100,000 | $\frac{200,000}{71,368,703}$ | 422,399,994 | $\frac{43}{528}$ | 422,400,005 | $\frac{485}{528}$ | 16,896 |
| 23 | $\frac{60,096,489}{70,291,457}$ | 99,999 | $\frac{70,091,457}{70,291,457}$ | 23 | $\frac{12,019,307}{14,058,291}$ | 100,000 | $\frac{40,000}{14,058,291}$ | 419,199,994 | $\frac{19}{524}$ | 419,200,005 | $\frac{505}{524}$ | 16,768 |
| 24 | $\frac{2,662,376}{69,222,401}$ | 99,999 | $\frac{69,022,401}{69,222,401}$ | 24 | $\frac{2,662,424}{69,222,399}$ | 100,000 | $\frac{200,000}{69,222,399}$ | 415,999,993 | $\frac{103}{104}$ | 416,000,006 | $\frac{1}{104}$ | 16,640 |
| 24 | $\frac{15,323,112}{68,161,537}$ | 99,999 | $\frac{67,961,537}{68,161,537}$ | 24 | $\frac{3,064,632}{13,632,307}$ | 100,000 | $\frac{40,000}{13,632,307}$ | 412,799,993 | $\frac{487}{516}$ | 412,800,006 | $\frac{29}{516}$ | 16,512 |
| 24 | $\frac{5,557,448}{13,421,773}$ | 99,999 | $\frac{13,381,773}{13,421,773}$ | 24 | $\frac{27,787,288}{67,108,863}$ | 100,000 | $\frac{200,000}{67,108,863}$ | 409,599,993 | $\frac{459}{512}$ | 409,600,006 | $\frac{53}{512}$ | 16,384 |
| 24 | $\frac{8,010,952}{13,212,877}$ | 99,999 | $\frac{13,172,877}{13,212,877}$ | 24 | $\frac{40,054,808}{66,064,383}$ | 100,000 | $\frac{200,000}{66,064,383}$ | 406,399,993 | $\frac{431}{508}$ | 406,400,006 | $\frac{77}{508}$ | 16,256 |
| 24 | $\frac{52,125,672}{65,028,097}$ | 99,999 | $\frac{64,828,097}{65,028,097}$ | 24 | $\frac{10,425,144}{13,005,619}$ | 100,000 | $\frac{40,000}{13,005,619}$ | 403,199,993 | $\frac{403}{504}$ | 403,200,006 | $\frac{101}{504}$ | 16,128 |
| 24 | $\frac{63,999,976}{64,000,001}$ | 99,999 | $\frac{63,800,001}{64,000,001}$ | 25 | $\frac{25}{63,999,999}$ | 100,000 | $\frac{200,000}{63,999,999}$ | 399,999,993 | $\frac{3}{4}$ | 400,000,006 | $\frac{1}{4}$ | 16,000 |
| 25 | $\frac{12,697,575}{62,980,097}$ | 99,999 | $\frac{62,780,097}{62,980,097}$ | 25 | $\frac{2,539,525}{12,596,019}$ | 100,000 | $\frac{40,000}{12,596,019}$ | 396,799,993 | $\frac{347}{496}$ | 396,800,006 | $\frac{149}{496}$ | 15,872 |
| 25 | $\frac{5,038,075}{12,393,677}$ | 99,999 | $\frac{12,353,677}{12,393,677}$ | 25 | $\frac{25,199,425}{61,968,383}$ | 100,000 | $\frac{200,000}{61,968,383}$ | 393,599,993 | $\frac{319}{492}$ | 393,600,006 | $\frac{173}{492}$ | 15,744 |
| 25 | $\frac{7,495,675}{12,192,973}$ | 99,999 | $\frac{12,152,973}{12,192,973}$ | 25 | $\frac{37,478,425}{60,964,863}$ | 100,000 | $\frac{200,000}{60,964,863}$ | 390,399,993 | $\frac{291}{488}$ | 390,400,006 | $\frac{197}{488}$ | 15,616 |
| 25 | $\frac{49,561,575}{59,969,537}$ | 99,999 | $\frac{59,769,537}{59,969,537}$ | 25 | $\frac{9,912,325}{11,993,907}$ | 100,000 | $\frac{40,000}{11,993,907}$ | 387,199,993 | $\frac{263}{484}$ | 387,200,006 | $\frac{221}{484}$ | 15,488 |
| 26 | $\frac{2,457,574}{58,982,401}$ | 99,999 | $\frac{58,782,401}{58,982,401}$ | 26 | $\frac{2,457,626}{58,982,399}$ | 100,000 | $\frac{200,000}{58,982,399}$ | 383,999,993 | $\frac{47}{96}$ | 384,000,006 | $\frac{49}{96}$ | 15,360 |
| 26 | $\frac{15,110,118}{58,003,457}$ | 99,999 | $\frac{57,803,457}{58,003,457}$ | 26 | $\frac{3,022,034}{11,600,691}$ | 100,000 | $\frac{40,000}{11,600,691}$ | 380,799,993 | $\frac{207}{476}$ | 380,800,006 | $\frac{269}{476}$ | 15,232 |
| 26 | $\frac{5,509,934}{11,406,541}$ | 99,999 | $\frac{11,366,541}{11,406,541}$ | 26 | $\frac{27,549,722}{57,032,703}$ | 100,000 | $\frac{200,000}{57,032,703}$ | 377,599,993 | $\frac{179}{472}$ | 377,600,006 | $\frac{293}{472}$ | 15,104 |
| 26 | $\frac{7,955,246}{11,214,029}$ | 99,999 | $\frac{11,174,029}{11,214,029}$ | 26 | $\frac{39,776,282}{56,070,143}$ | 100,000 | $\frac{200,000}{56,070,143}$ | 374,399,993 | $\frac{151}{468}$ | 374,400,006 | $\frac{317}{468}$ | 14,976 |
| 26 | $\frac{51,789,798}{55,115,777}$ | 99,999 | $\frac{54,915,777}{55,115,777}$ | 26 | $\frac{2,071,594}{2,204,631}$ | 100,000 | $\frac{8,000}{2,204,631}$ | 371,199,993 | $\frac{123}{464}$ | 371,200,006 | $\frac{341}{464}$ | 14,848 |
| 27 | $\frac{9,420,773}{54,169,601}$ | 99,999 | $\frac{53,969,601}{54,169,601}$ | 27 | $\frac{9,420,827}{54,169,599}$ | 100,000 | $\frac{200,000}{54,169,599}$ | 367,999,993 | $\frac{19}{92}$ | 368,000,006 | $\frac{73}{92}$ | 14,720 |
| 27 | $\frac{21,946,341}{53,231,617}$ | 99,999 | $\frac{53,031,617}{53,231,617}$ | 27 | $\frac{4,389,279}{10,646,323}$ | 100,000 | $\frac{40,000}{10,646,323}$ | 364,799,993 | $\frac{67}{456}$ | 364,800,006 | $\frac{389}{456}$ | 14,592 |
| 27 | $\frac{1,370,029}{2,092,073}$ | 99,999 | $\frac{2,084,073}{2,092,073}$ | 27 | $\frac{34,250,779}{52,301,823}$ | 100,000 | $\frac{200,000}{52,301,823}$ | 361,599,993 | $\frac{39}{452}$ | 361,600,006 | $\frac{413}{452}$ | 14,464 |
| 27 | $\frac{1,853,357}{2,055,209}$ | 99,999 | $\frac{2,047,209}{2,055,209}$ | 27 | $\frac{46,333,979}{51,380,223}$ | 100,000 | $\frac{200,000}{51,380,223}$ | 358,399,993 | $\frac{11}{448}$ | 358,400,006 | $\frac{437}{448}$ | 14,336 |
| 28 | $\frac{7,729,124}{59,466,817}$ | 99,999 | $\frac{59,266,817}{59,466,817}$ | 28 | $\frac{1,545,836}{10,093,363}$ | 100,000 | $\frac{40,000}{10,093,363}$ | 355,199,992 | $\frac{427}{444}$ | 355,200,007 | $\frac{17}{444}$ | 14,208 |
| 28 | $\frac{20,275,172}{49,561,601}$ | 99,999 | $\frac{49,361,601}{49,561,601}$ | 28 | $\frac{20,275,228}{49,561,599}$ | 100,000 | $\frac{200,000}{49,561,599}$ | 351,999,992 | $\frac{79}{88}$ | 352,000,007 | $\frac{9}{88}$ | 14,080 |
| 28 | $\frac{32,591,844}{48,664,577}$ | 99,999 | $\frac{48,464,577}{48,664,577}$ | 28 | $\frac{1,393,676}{1,946,583}$ | 100,000 | $\frac{8,000}{1,946,583}$ | 348,799,992 | $\frac{363}{436}$ | 348,800,007 | $\frac{73}{436}$ | 13,952 |
| 28 | $\frac{8,935,828}{9,555,149}$ | 99,999 | $\frac{9,515,149}{9,555,149}$ | 28 | $\frac{44,679,196}{47,775,743}$ | 100,000 | $\frac{200,000}{47,775,743}$ | 345,599,992 | $\frac{331}{432}$ | 345,600,007 | $\frac{101}{432}$ | 13,824 |
| 29 | $\frac{1,928,391}{9,379,021}$ | 99,999 | $\frac{9,339,021}{9,379,021}$ | 29 | $\frac{9,642,013}{46,895,103}$ | 100,000 | $\frac{200,000}{46,895,103}$ | 342,399,992 | $\frac{299}{428}$ | 342,400,007 | $\frac{129}{428}$ | 13,696 |
| 29 | $\frac{22,142,947}{46,022,657}$ | 99,999 | $\frac{45,822,657}{46,022,657}$ | 29 | $\frac{4,428,601}{9,204,531}$ | 100,000 | $\frac{40,000}{9,204,531}$ | 339,199,992 | $\frac{267}{424}$ | 339,200,007 | $\frac{157}{424}$ | 13,568 |
| 29 | $\frac{34,406,371}{45,158,401}$ | 99,999 | $\frac{44,958,401}{45,158,401}$ | 29 | $\frac{34,406,429}{45,158,399}$ | 100,000 | $\frac{200,000}{45,158,399}$ | 335,999,992 | $\frac{47}{84}$ | 336,000,007 | $\frac{37}{84}$ | 13,440 |
| 30 | $\frac{2,129,890}{44,302,337}$ | 99,999 | $\frac{44,102,337}{44,302,337}$ | 30 | $\frac{425,990}{8,860,467}$ | 100,000 | $\frac{40,000}{8,860,467}$ | 332,799,992 | $\frac{203}{416}$ | 332,800,007 | $\frac{213}{416}$ | 13,312 |
| 30 | $\frac{2,953,210}{8,690,893}$ | 99,999 | $\frac{8,650,893}{8,690,893}$ | 30 | $\frac{14,766,110}{43,454,463}$ | 100,000 | $\frac{200,000}{43,454,463}$ | 329,599,992 | $\frac{171}{412}$ | 329,600,007 | $\frac{241}{412}$ | 13,184 |
| 30 | $\frac{5,431,290}{8,522,957}$ | 99,999 | $\frac{8,482,957}{8,522,957}$ | 30 | $\frac{27,156,510}{42,614,783}$ | 100,000 | $\frac{200,000}{42,614,783}$ | 326,399,992 | $\frac{139}{408}$ | 326,400,007 | $\frac{269}{408}$ | 13,056 |
| 30 | $\frac{39,301,090}{41,783,297}$ | 99,999 | $\frac{41,583,297}{41,783,297}$ | 30 | $\frac{7,860,230}{8,356,659}$ | 100,000 | $\frac{40,000}{8,356,659}$ | 323,199,992 | $\frac{107}{404}$ | 323,200,007 | $\frac{297}{404}$ | 12,928 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Numeri primi Baseos</i> |
| 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | |
| Hypotenusa | | Perpendicularum | | Perpendicularum | | Hypotenusa | | Basis | | Hypotenusa | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 22 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|------------------------------|-----------------|---------------------------------|------------------------|---------------------------------|--------------|---------------------------------|
| SERIES III. | | | | SERIES II. | | | | SERIES I. | | | | |
| 12,800 | 320,000,007 | $\frac{13}{16}$ | 319,999,992 | $\frac{3}{16}$ | 100,000 | $\frac{200,000}{40,959,999}$ | 31 | $\frac{10,240,031}{40,959,999}$ | 99,999 | $\frac{40,760,001}{40,960,001}$ | 31 | $\frac{10,239,969}{40,960,001}$ |
| 12,736 | 318,400,007 | $\frac{339}{398}$ | 318,399,992 | $\frac{59}{398}$ | 100,000 | $\frac{200,000}{40,551,423}$ | 31 | $\frac{16,505,887}{40,551,423}$ | 99,999 | $\frac{1,614,057}{1,622,057}$ | 31 | $\frac{660,233}{1,622,057}$ |
| 12,672 | 316,800,007 | $\frac{353}{396}$ | 316,799,992 | $\frac{43}{396}$ | 100,000 | $\frac{40,000}{8,028,979}$ | 31 | $\frac{4,541,651}{8,028,979}$ | 99,999 | $\frac{39,944,897}{40,144,897}$ | 31 | $\frac{22,708,193}{40,144,897}$ |
| 12,608 | 315,200,007 | $\frac{367}{394}$ | 315,199,992 | $\frac{27}{394}$ | 100,000 | $\frac{40,000}{7,948,083}$ | 31 | $\frac{5,769,427}{7,948,083}$ | 99,999 | $\frac{39,549,417}{39,749,417}$ | 31 | $\frac{28,847,073}{39,749,417}$ |
| 12,544 | 313,600,007 | $\frac{381}{392}$ | 313,599,992 | $\frac{11}{392}$ | 100,000 | $\frac{200,000}{39,337,983}$ | 31 | $\frac{34,922,527}{39,337,983}$ | 99,999 | $\frac{7,827,597}{7,867,597}$ | 31 | $\frac{6,984,493}{7,867,597}$ |
| 12,480 | 312,000,008 | $\frac{1}{78}$ | 311,999,991 | $\frac{77}{78}$ | 100,000 | $\frac{200,000}{38,937,599}$ | 32 | $\frac{1,996,832}{38,937,599}$ | 99,999 | $\frac{38,737,601}{38,937,601}$ | 32 | $\frac{1,996,768}{38,937,601}$ |
| 12,416 | 310,400,008 | $\frac{21}{388}$ | 310,399,991 | $\frac{367}{388}$ | 100,000 | $\frac{200,000}{38,539,263}$ | 32 | $\frac{8,343,584}{38,539,263}$ | 99,999 | $\frac{7,667,853}{7,707,853}$ | 32 | $\frac{1,668,704}{7,707,853}$ |
| 12,352 | 308,800,008 | $\frac{37}{386}$ | 308,799,991 | $\frac{349}{386}$ | 100,000 | $\frac{8,000}{1,525,719}$ | 32 | $\frac{584,992}{1,525,719}$ | 99,999 | $\frac{37,942,977}{38,142,977}$ | 32 | $\frac{14,624,736}{38,142,977}$ |
| 12,288 | 307,200,008 | $\frac{53}{384}$ | 307,199,991 | $\frac{331}{384}$ | 100,000 | $\frac{40,000}{7,549,747}$ | 32 | $\frac{4,168,096}{7,549,747}$ | 99,999 | $\frac{37,548,737}{37,748,737}$ | 32 | $\frac{20,840,416}{37,748,737}$ |
| 12,224 | 305,600,008 | $\frac{69}{382}$ | 305,599,991 | $\frac{313}{382}$ | 100,000 | $\frac{200,000}{37,356,543}$ | 32 | $\frac{26,090,624}{37,356,543}$ | 99,999 | $\frac{7,431,309}{7,471,309}$ | 32 | $\frac{5,398,112}{7,471,309}$ |
| 12,160 | 304,000,008 | $\frac{17}{76}$ | 303,999,991 | $\frac{59}{76}$ | 100,000 | $\frac{200,000}{36,966,399}$ | 32 | $\frac{33,075,232}{36,966,399}$ | 99,999 | $\frac{36,766,401}{36,966,401}$ | 32 | $\frac{33,075,168}{36,966,401}$ |
| 12,096 | 302,400,008 | $\frac{101}{378}$ | 302,399,991 | $\frac{277}{378}$ | 100,000 | $\frac{200,000}{36,578,303}$ | 33 | $\frac{2,516,001}{36,578,303}$ | 99,999 | $\frac{7,275,661}{7,315,661}$ | 33 | $\frac{503,187}{7,315,661}$ |
| 12,032 | 300,800,008 | $\frac{117}{376}$ | 300,799,991 | $\frac{259}{376}$ | 100,000 | $\frac{40,000}{7,238,451}$ | 33 | $\frac{1,771,117}{7,238,451}$ | 99,999 | $\frac{35,992,257}{36,192,257}$ | 33 | $\frac{8,855,519}{36,192,257}$ |
| 11,968 | 299,200,008 | $\frac{133}{374}$ | 299,199,991 | $\frac{241}{374}$ | 100,000 | $\frac{40,000}{7,161,651}$ | 33 | $\frac{3,025,517}{7,161,651}$ | 99,999 | $\frac{35,608,257}{35,808,257}$ | 33 | $\frac{15,127,519}{35,808,257}$ |
| 11,904 | 297,600,008 | $\frac{149}{372}$ | 297,599,991 | $\frac{223}{372}$ | 100,000 | $\frac{200,000}{35,426,303}$ | 33 | $\frac{21,332,001}{35,426,303}$ | 99,999 | $\frac{7,045,261}{7,085,261}$ | 33 | $\frac{4,266,387}{7,085,261}$ |
| 11,840 | 296,000,008 | $\frac{33}{74}$ | 295,999,991 | $\frac{41}{74}$ | 100,000 | $\frac{200,000}{35,046,399}$ | 33 | $\frac{27,468,833}{35,046,399}$ | 99,999 | $\frac{34,846,401}{35,046,401}$ | 33 | $\frac{27,468,767}{35,046,401}$ |
| 11,776 | 294,400,008 | $\frac{181}{368}$ | 294,399,991 | $\frac{187}{368}$ | 100,000 | $\frac{200,000}{34,668,543}$ | 33 | $\frac{33,538,081}{34,668,543}$ | 99,999 | $\frac{6,893,709}{6,933,709}$ | 33 | $\frac{6,707,603}{6,933,709}$ |
| 11,712 | 292,800,008 | $\frac{197}{366}$ | 292,799,991 | $\frac{169}{366}$ | 100,000 | $\frac{40,000}{6,858,547}$ | 34 | $\frac{1,049,402}{6,858,547}$ | 99,999 | $\frac{34,092,737}{34,292,737}$ | 34 | $\frac{5,246,942}{34,292,737}$ |
| 11,648 | 291,200,008 | $\frac{213}{364}$ | 291,199,991 | $\frac{151}{364}$ | 100,000 | $\frac{8,000}{1,356,759}$ | 34 | $\frac{462,194}{1,356,759}$ | 99,999 | $\frac{33,718,977}{33,918,977}$ | 34 | $\frac{11,554,782}{33,918,977}$ |
| 11,584 | 289,600,008 | $\frac{229}{362}$ | 289,599,991 | $\frac{133}{362}$ | 100,000 | $\frac{200,000}{33,547,263}$ | 34 | $\frac{17,793,058}{33,547,263}$ | 99,999 | $\frac{6,669,453}{6,709,453}$ | 34 | $\frac{3,558,598}{6,709,453}$ |
| 11,520 | 288,000,008 | $\frac{49}{72}$ | 287,999,991 | $\frac{23}{72}$ | 100,000 | $\frac{200,000}{33,177,599}$ | 34 | $\frac{23,961,634}{33,177,599}$ | 99,999 | $\frac{32,977,601}{33,177,601}$ | 34 | $\frac{23,961,566}{33,177,601}$ |
| 11,456 | 286,400,008 | $\frac{261}{358}$ | 286,399,991 | $\frac{97}{358}$ | 100,000 | $\frac{200,000}{32,809,983}$ | 34 | $\frac{30,060,578}{32,809,983}$ | 99,999 | $\frac{6,521,997}{6,561,997}$ | 34 | $\frac{6,012,102}{6,561,997}$ |
| 11,392 | 284,800,008 | $\frac{277}{356}$ | 284,799,991 | $\frac{79}{356}$ | 100,000 | $\frac{40,000}{6,488,883}$ | 35 | $\frac{729,095}{6,488,883}$ | 99,999 | $\frac{32,244,417}{32,444,417}$ | 35 | $\frac{3,645,405}{32,444,417}$ |
| 11,328 | 283,200,008 | $\frac{293}{354}$ | 283,199,991 | $\frac{61}{354}$ | 100,000 | $\frac{40,000}{6,416,179}$ | 35 | $\frac{1,993,735}{6,416,179}$ | 99,999 | $\frac{31,880,897}{32,080,897}$ | 35 | $\frac{9,968,605}{32,080,897}$ |
| 11,264 | 281,600,008 | $\frac{309}{352}$ | 281,599,991 | $\frac{43}{352}$ | 100,000 | $\frac{200,000}{31,719,423}$ | 35 | $\frac{16,220,195}{31,719,423}$ | 99,999 | $\frac{1,260,777}{1,268,777}$ | 35 | $\frac{648,805}{1,268,777}$ |
| 11,200 | 280,000,008 | $\frac{13}{14}$ | 279,999,991 | $\frac{1}{14}$ | 100,000 | $\frac{200,000}{31,359,999}$ | 35 | $\frac{22,400,035}{31,359,999}$ | 99,999 | $\frac{31,160,001}{31,360,001}$ | 35 | $\frac{22,399,965}{31,360,001}$ |
| 11,136 | 278,400,008 | $\frac{341}{348}$ | 278,399,991 | $\frac{7}{348}$ | 100,000 | $\frac{200,000}{31,002,623}$ | 35 | $\frac{28,508,195}{31,002,623}$ | 99,999 | $\frac{246,421}{248,021}$ | 35 | $\frac{228,065}{248,021}$ |
| 11,072 | 276,800,009 | $\frac{11}{346}$ | 276,799,990 | $\frac{335}{346}$ | 100,000 | $\frac{40,000}{6,129,459}$ | 36 | $\frac{779,476}{6,129,459}$ | 99,999 | $\frac{30,447,297}{30,647,297}$ | 36 | $\frac{3,897,308}{30,647,297}$ |
| 11,008 | 275,200,009 | $\frac{29}{344}$ | 275,199,990 | $\frac{315}{344}$ | 100,000 | $\frac{40,000}{6,058,803}$ | 36 | $\frac{2,043,092}{6,058,803}$ | 99,999 | $\frac{30,094,017}{30,294,017}$ | 36 | $\frac{10,215,388}{30,294,017}$ |
| 10,944 | 273,600,009 | $\frac{47}{342}$ | 273,599,990 | $\frac{295}{342}$ | 100,000 | $\frac{200,000}{29,942,783}$ | 36 | $\frac{16,459,812}{29,942,783}$ | 99,999 | $\frac{5,948,557}{5,988,557}$ | 36 | $\frac{3,291,948}{5,988,557}$ |
| 10,880 | 272,000,009 | $\frac{13}{68}$ | 271,999,990 | $\frac{55}{68}$ | 100,000 | $\frac{200,000}{29,593,599}$ | 36 | $\frac{22,630,436}{29,593,599}$ | 99,999 | $\frac{29,393,601}{29,593,601}$ | 36 | $\frac{22,630,364}{29,593,601}$ |
| 10,816 | 270,400,009 | $\frac{83}{338}$ | 270,399,990 | $\frac{255}{338}$ | 100,000 | $\frac{200,000}{29,246,463}$ | 36 | $\frac{28,727,332}{29,246,463}$ | 99,999 | $\frac{5,809,293}{5,849,293}$ | 36 | $\frac{5,745,452}{5,849,293}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | Basis | | Basis | | Perpendicularum | | Perpendicularum | | Hypotenusa | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 23 | |
|--------------------------------|---------------------------------|--------|---|----|---------------------------------|--------------------------------|------------------------------|-------------|-------------------------------------|-------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 37 | $\frac{5,849,051}{28,901,377}$ | 99,999 | $\frac{28,701,377}{28,901,377}$ | 37 | $\frac{46,793}{231,211}$ | 100,000 | $\frac{1,600}{231,211}$ | 268,799,990 | $\frac{235}{336}$ | 268,800,009 | $\frac{101}{336}$ | 10,752 |
| 37 | $\frac{12,141,531}{28,558,337}$ | 99,999 | $\frac{28,358,337}{28,558,337}$ | 37 | $\frac{2,428,321}{5,711,667}$ | 100,000 | $\frac{40,000}{5,711,667}$ | 267,199,990 | $\frac{215}{334}$ | 267,200,009 | $\frac{119}{334}$ | 10,688 |
| 37 | $\frac{3,671,647}{5,643,469}$ | 99,999 | $\frac{5,603,469}{5,643,469}$ | 37 | $\frac{18,358,309}{28,217,343}$ | 100,000 | $\frac{200,000}{28,217,343}$ | 265,599,990 | $\frac{195}{332}$ | 265,600,009 | $\frac{137}{332}$ | 10,624 |
| 37 | $\frac{24,499,163}{27,878,401}$ | 99,999 | $\frac{27,678,401}{27,878,401}$ | 37 | $\frac{24,499,237}{27,878,399}$ | 100,000 | $\frac{200,000}{27,878,399}$ | 263,999,990 | $\frac{35}{66}$ | 264,000,009 | $\frac{31}{66}$ | 10,560 |
| 38 | $\frac{604,562}{5,508,301}$ | 99,999 | $\frac{5,468,301}{5,508,301}$ | 38 | $\frac{3,022,886}{27,541,503}$ | 100,000 | $\frac{200,000}{27,541,503}$ | 262,399,990 | $\frac{155}{328}$ | 262,400,009 | $\frac{173}{328}$ | 10,496 |
| 38 | $\frac{9,347,034}{27,206,657}$ | 99,999 | $\frac{27,006,657}{27,206,657}$ | 38 | $\frac{1,869,422}{5,441,331}$ | 100,000 | $\frac{40,000}{5,441,331}$ | 260,799,990 | $\frac{135}{326}$ | 260,800,009 | $\frac{191}{326}$ | 10,432 |
| 38 | $\frac{15,593,434}{26,873,857}$ | 99,999 | $\frac{26,673,857}{26,873,857}$ | 38 | $\frac{3,118,702}{5,374,771}$ | 100,000 | $\frac{40,000}{5,374,771}$ | 259,199,990 | $\frac{115}{324}$ | 259,200,009 | $\frac{209}{324}$ | 10,368 |
| 38 | $\frac{4,352,402}{5,308,621}$ | 99,999 | $\frac{5,268,621}{5,308,621}$ | 38 | $\frac{21,762,086}{26,543,103}$ | 100,000 | $\frac{200,000}{26,543,103}$ | 257,599,990 | $\frac{95}{322}$ | 257,600,009 | $\frac{227}{322}$ | 10,304 |
| 39 | $\frac{1,638,361}{26,214,401}$ | 99,999 | $\frac{26,014,401}{26,214,401}$ | 39 | $\frac{1,638,439}{26,214,399}$ | 100,000 | $\frac{200,000}{26,214,399}$ | 255,999,990 | $\frac{15}{64}$ | 256,000,009 | $\frac{49}{64}$ | 10,240 |
| 39 | $\frac{1,595,589}{5,177,549}$ | 99,999 | $\frac{5,137,549}{5,177,549}$ | 39 | $\frac{7,978,023}{25,887,743}$ | 100,000 | $\frac{200,000}{25,887,743}$ | 254,399,990 | $\frac{55}{318}$ | 254,400,009 | $\frac{263}{318}$ | 10,176 |
| 39 | $\frac{14,237,657}{25,563,137}$ | 99,999 | $\frac{25,363,137}{25,563,137}$ | 39 | $\frac{2,847,547}{5,112,627}$ | 100,000 | $\frac{40,000}{5,112,627}$ | 252,799,990 | $\frac{35}{316}$ | 252,800,009 | $\frac{281}{316}$ | 10,112 |
| 39 | $\frac{20,417,497}{25,240,577}$ | 99,999 | $\frac{25,040,577}{25,240,577}$ | 39 | $\frac{816,703}{1,009,623}$ | 100,000 | $\frac{8,000}{1,009,623}$ | 251,199,990 | $\frac{15}{314}$ | 251,200,009 | $\frac{299}{314}$ | 10,048 |
| 40 | $\frac{319,480}{4,984,013}$ | 99,999 | $\frac{4,944,013}{4,984,013}$ | 40 | $\frac{1,597,480}{24,920,063}$ | 100,000 | $\frac{200,000}{24,920,063}$ | 249,599,989 | $\frac{307}{312}$ | 249,600,010 | $\frac{5}{312}$ | 9,984 |
| 40 | $\frac{7,935,960}{24,601,601}$ | 99,999 | $\frac{24,401,601}{24,601,601}$ | 40 | $\frac{7,935,040}{24,601,599}$ | 100,000 | $\frac{200,000}{24,601,599}$ | 247,999,989 | $\frac{57}{62}$ | 248,000,010 | $\frac{5}{62}$ | 9,920 |
| 40 | $\frac{2,838,520}{4,857,037}$ | 99,999 | $\frac{4,817,037}{4,857,037}$ | 40 | $\frac{14,192,680}{24,285,183}$ | 100,000 | $\frac{200,000}{24,285,183}$ | 246,399,989 | $\frac{263}{308}$ | 246,400,010 | $\frac{45}{308}$ | 9,856 |
| 40 | $\frac{20,307,320}{23,970,817}$ | 99,999 | $\frac{23,770,817}{23,970,817}$ | 40 | $\frac{4,073,480}{4,794,163}$ | 100,000 | $\frac{40,000}{4,794,163}$ | 244,799,989 | $\frac{241}{306}$ | 244,800,010 | $\frac{65}{306}$ | 9,792 |
| 41 | $\frac{2,801,623}{23,658,497}$ | 99,999 | $\frac{23,458,497}{23,658,497}$ | 41 | $\frac{560,341}{4,731,699}$ | 100,000 | $\frac{40,000}{4,731,699}$ | 243,199,989 | $\frac{219}{304}$ | 243,200,010 | $\frac{85}{304}$ | 9,728 |
| 41 | $\frac{364,911}{933,929}$ | 99,999 | $\frac{925,929}{933,929}$ | 41 | $\frac{9,122,857}{23,348,223}$ | 100,000 | $\frac{200,000}{23,348,223}$ | 241,599,989 | $\frac{197}{302}$ | 241,600,010 | $\frac{105}{302}$ | 9,664 |
| 41 | $\frac{15,359,959}{23,040,001}$ | 99,999 | $\frac{22,840,001}{23,040,001}$ | 41 | $\frac{15,360,041}{23,039,999}$ | 100,000 | $\frac{200,000}{23,039,999}$ | 239,999,989 | $\frac{7}{12}$ | 240,000,010 | $\frac{5}{12}$ | 9,600 |
| 41 | $\frac{860,527}{909,353}$ | 99,999 | $\frac{901,353}{909,353}$ | 41 | $\frac{21,513,257}{22,733,823}$ | 100,000 | $\frac{200,000}{22,733,823}$ | 238,399,989 | $\frac{153}{298}$ | 238,400,010 | $\frac{145}{298}$ | 9,536 |
| 42 | $\frac{5,152,726}{22,429,697}$ | 99,999 | $\frac{22,229,697}{22,429,697}$ | 42 | $\frac{1,039,562}{4,485,939}$ | 100,000 | $\frac{40,000}{4,485,939}$ | 236,799,989 | $\frac{131}{296}$ | 236,800,010 | $\frac{165}{296}$ | 9,472 |
| 42 | $\frac{11,440,086}{22,127,617}$ | 99,999 | $\frac{21,927,617}{22,127,617}$ | 42 | $\frac{2,288,034}{4,425,523}$ | 100,000 | $\frac{40,000}{4,425,523}$ | 235,199,989 | $\frac{109}{294}$ | 235,200,010 | $\frac{185}{294}$ | 9,408 |
| 42 | $\frac{3,528,286}{4,365,517}$ | 99,999 | $\frac{4,325,517}{4,365,517}$ | 42 | $\frac{17,641,514}{21,827,583}$ | 100,000 | $\frac{200,000}{21,827,583}$ | 233,599,989 | $\frac{87}{292}$ | 233,600,010 | $\frac{205}{292}$ | 9,344 |
| 43 | $\frac{2,227,157}{21,529,601}$ | 99,999 | $\frac{21,329,601}{21,529,601}$ | 43 | $\frac{2,227,243}{21,529,599}$ | 100,000 | $\frac{200,000}{21,529,599}$ | 231,999,989 | $\frac{13}{58}$ | 232,000,010 | $\frac{45}{58}$ | 9,280 |
| 43 | $\frac{1,710,481}{4,246,733}$ | 99,999 | $\frac{4,206,733}{4,246,733}$ | 43 | $\frac{8,552,491}{21,233,663}$ | 100,000 | $\frac{200,000}{21,233,663}$ | 230,399,989 | $\frac{43}{288}$ | 230,400,010 | $\frac{245}{288}$ | 9,216 |
| 43 | $\frac{14,789,589}{20,939,777}$ | 99,999 | $\frac{20,739,777}{20,939,777}$ | 43 | $\frac{591,587}{837,591}$ | 100,000 | $\frac{8,000}{837,591}$ | 228,799,989 | $\frac{21}{286}$ | 228,800,010 | $\frac{265}{286}$ | 9,152 |
| 44 | $\frac{290,772}{20,647,937}$ | 99,999 | $\frac{20,447,937}{20,647,937}$ | 44 | $\frac{58,172}{4,129,587}$ | 100,000 | $\frac{40,000}{4,129,587}$ | 227,199,988 | $\frac{283}{284}$ | 227,200,011 | $\frac{1}{284}$ | 9,088 |
| 44 | $\frac{1,328,324}{4,071,629}$ | 99,999 | $\frac{4,031,629}{4,071,629}$ | 44 | $\frac{6,641,708}{20,358,143}$ | 100,000 | $\frac{200,000}{20,358,143}$ | 225,599,988 | $\frac{259}{282}$ | 225,600,011 | $\frac{23}{282}$ | 9,024 |
| 44 | $\frac{12,902,356}{20,070,401}$ | 99,999 | $\frac{19,870,401}{20,070,401}$ | 44 | $\frac{12,902,444}{20,070,399}$ | 100,000 | $\frac{200,000}{20,070,399}$ | 223,999,988 | $\frac{47}{56}$ | 224,000,011 | $\frac{9}{56}$ | 8,960 |
| 44 | $\frac{3,814,596}{3,956,941}$ | 99,999 | $\frac{3,916,941}{3,956,941}$ | 44 | $\frac{19,073,068}{19,784,703}$ | 100,000 | $\frac{200,000}{19,784,703}$ | 222,399,988 | $\frac{211}{278}$ | 222,400,011 | $\frac{67}{278}$ | 8,896 |
| 45 | $\frac{5,652,435}{19,501,057}$ | 99,999 | $\frac{19,301,057}{19,501,057}$ | 45 | $\frac{1,139,595}{3,900,211}$ | 100,000 | $\frac{40,000}{3,900,211}$ | 220,799,988 | $\frac{187}{276}$ | 220,800,011 | $\frac{89}{276}$ | 8,832 |
| 45 | $\frac{11,924,435}{19,219,457}$ | 99,999 | $\frac{19,019,457}{19,219,457}$ | 45 | $\frac{2,384,995}{3,843,891}$ | 100,000 | $\frac{40,000}{3,843,891}$ | 219,199,988 | $\frac{163}{274}$ | 219,200,011 | $\frac{111}{274}$ | 8,768 |
| 45 | $\frac{3,620,855}{3,787,981}$ | 99,999 | $\frac{3,747,981}{3,787,981}$ | 45 | $\frac{18,104,365}{18,939,993}$ | 100,000 | $\frac{200,000}{18,939,993}$ | 217,599,988 | $\frac{139}{272}$ | 217,600,011 | $\frac{133}{272}$ | 8,704 |
| 46 | $\frac{5,529,554}{18,662,401}$ | 99,999 | $\frac{18,462,401}{18,662,401}$ | 46 | $\frac{5,529,646}{18,662,399}$ | 100,000 | $\frac{200,000}{18,662,399}$ | 215,999,988 | $\frac{23}{54}$ | 216,000,011 | $\frac{31}{54}$ | 8,640 |
| Basis 100,000 Hypotenusa | | | Perpendicularum 100,000 Perpendicularum | | | Basis 100,000 Hypotenusa | | | Perpendicularum 100,000 Basis | | | Numeri primi Baseos |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 25 | |
|---------------------|--------------------------------|------------------------|---------------------------------|--------------|--------------------------------|-------------------|------------------------------|------------------------|-------------------|-------------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 62 | $\frac{5,119,938}{10,240,001}$ | 99,999 | $\frac{10,040,001}{10,240,001}$ | 62 | $\frac{5,120,062}{10,239,999}$ | 100,000 | $\frac{200,000}{10,239,999}$ | 159,999,984 | $\frac{3}{8}$ | 160,000,015 | $\frac{5}{8}$ | 6,400 |
| 62 | $\frac{8,252,866}{10,137,857}$ | 99,999 | $\frac{9,937,857}{10,137,857}$ | 62 | $\frac{1,659,598}{2,027,571}$ | 100,000 | $\frac{40,000}{2,027,571}$ | 159,199,984 | $\frac{59}{199}$ | 159,200,015 | $\frac{140}{199}$ | 6,368 |
| 63 | $\frac{52,713}{401,449}$ | 99,999 | $\frac{393,449}{401,449}$ | 63 | $\frac{1,317,951}{10,036,223}$ | 100,000 | $\frac{200,000}{10,036,223}$ | 158,399,984 | $\frac{43}{198}$ | 158,400,015 | $\frac{155}{198}$ | 6,336 |
| 63 | $\frac{897,677}{1,987,021}$ | 99,999 | $\frac{1,947,021}{1,987,021}$ | 63 | $\frac{4,488,511}{9,935,103}$ | 100,000 | $\frac{200,000}{9,935,103}$ | 157,599,984 | $\frac{27}{197}$ | 157,600,015 | $\frac{170}{197}$ | 6,304 |
| 63 | $\frac{7,626,689}{9,834,497}$ | 99,999 | $\frac{9,634,497}{9,834,497}$ | 63 | $\frac{1,525,363}{1,966,899}$ | 100,000 | $\frac{40,000}{1,966,899}$ | 156,799,984 | $\frac{11}{196}$ | 156,800,015 | $\frac{185}{196}$ | 6,272 |
| 64 | $\frac{998,336}{9,734,401}$ | 99,999 | $\frac{9,534,401}{9,734,401}$ | 64 | $\frac{998,464}{9,734,399}$ | 100,000 | $\frac{200,000}{9,734,399}$ | 155,999,983 | $\frac{38}{39}$ | 156,000,016 | $\frac{1}{39}$ | 6,240 |
| 64 | $\frac{4,171,712}{9,634,817}$ | 99,999 | $\frac{9,434,817}{9,634,817}$ | 64 | $\frac{834,368}{1,926,963}$ | 100,000 | $\frac{40,000}{1,926,963}$ | 155,199,983 | $\frac{173}{194}$ | 155,200,016 | $\frac{21}{194}$ | 6,208 |
| 64 | $\frac{1,462,464}{1,907,149}$ | 99,999 | $\frac{1,867,149}{1,907,149}$ | 64 | $\frac{7,312,448}{9,535,743}$ | 100,000 | $\frac{200,000}{9,535,743}$ | 154,399,983 | $\frac{156}{193}$ | 154,400,016 | $\frac{37}{193}$ | 6,176 |
| 65 | $\frac{196,595}{1,887,437}$ | 99,999 | $\frac{1,847,437}{1,887,437}$ | 65 | $\frac{983,105}{9,437,183}$ | 100,000 | $\frac{200,000}{9,437,183}$ | 153,599,983 | $\frac{139}{192}$ | 153,600,016 | $\frac{53}{192}$ | 6,144 |
| 65 | $\frac{4,156,095}{9,339,137}$ | 99,999 | $\frac{9,139,137}{9,339,137}$ | 65 | $\frac{831,245}{1,867,827}$ | 100,000 | $\frac{40,000}{1,867,827}$ | 152,799,983 | $\frac{122}{191}$ | 152,800,016 | $\frac{69}{191}$ | 6,112 |
| 65 | $\frac{7,295,935}{9,241,601}$ | 99,999 | $\frac{9,041,601}{9,241,601}$ | 65 | $\frac{7,296,065}{9,241,599}$ | 100,000 | $\frac{200,000}{9,241,599}$ | 151,999,983 | $\frac{21}{38}$ | 152,000,016 | $\frac{17}{38}$ | 6,080 |
| 66 | $\frac{1,257,918}{9,144,577}$ | 99,999 | $\frac{8,944,577}{9,144,577}$ | 66 | $\frac{59,322}{395,783}$ | 100,000 | $\frac{8,000}{395,783}$ | 151,199,983 | $\frac{88}{189}$ | 151,200,016 | $\frac{101}{189}$ | 6,048 |
| 66 | $\frac{885,542}{1,809,613}$ | 99,999 | $\frac{1,769,613}{1,809,613}$ | 66 | $\frac{4,427,842}{9,048,063}$ | 100,000 | $\frac{200,000}{9,048,063}$ | 150,399,983 | $\frac{71}{188}$ | 150,400,016 | $\frac{117}{188}$ | 6,016 |
| 66 | $\frac{1,512,742}{1,790,413}$ | 99,999 | $\frac{1,750,413}{1,790,413}$ | 66 | $\frac{7,563,842}{8,952,063}$ | 100,000 | $\frac{200,000}{8,952,063}$ | 149,599,983 | $\frac{54}{187}$ | 149,600,016 | $\frac{133}{187}$ | 5,984 |
| 67 | $\frac{1,809,341}{8,856,577}$ | 99,999 | $\frac{8,656,577}{8,856,577}$ | 67 | $\frac{72,379}{354,263}$ | 100,000 | $\frac{8,000}{354,263}$ | 148,799,983 | $\frac{37}{186}$ | 148,800,016 | $\frac{149}{186}$ | 5,952 |
| 67 | $\frac{4,972,733}{8,761,601}$ | 99,999 | $\frac{8,561,601}{8,761,601}$ | 67 | $\frac{4,972,867}{8,761,599}$ | 100,000 | $\frac{200,000}{8,761,599}$ | 147,999,983 | $\frac{4}{37}$ | 148,000,016 | $\frac{33}{37}$ | 5,920 |
| 67 | $\frac{8,101,821}{8,667,137}$ | 99,999 | $\frac{8,467,137}{8,667,137}$ | 67 | $\frac{1,620,391}{1,733,427}$ | 100,000 | $\frac{40,000}{1,733,427}$ | 147,199,983 | $\frac{3}{184}$ | 147,200,016 | $\frac{181}{184}$ | 5,888 |
| 68 | $\frac{524,684}{1,714,637}$ | 99,999 | $\frac{1,674,637}{1,714,637}$ | 68 | $\frac{2,623,556}{8,573,183}$ | 100,000 | $\frac{200,000}{8,573,183}$ | 146,399,982 | $\frac{169}{183}$ | 146,400,017 | $\frac{14}{183}$ | 5,856 |
| 68 | $\frac{1,155,468}{1,695,949}$ | 99,999 | $\frac{1,655,949}{1,695,949}$ | 68 | $\frac{5,777,476}{8,479,743}$ | 100,000 | $\frac{200,000}{8,479,743}$ | 145,599,982 | $\frac{151}{182}$ | 145,600,017 | $\frac{31}{182}$ | 5,824 |
| 69 | $\frac{509,627}{8,386,817}$ | 99,999 | $\frac{8,186,817}{8,386,817}$ | 69 | $\frac{101,953}{1,677,363}$ | 100,000 | $\frac{40,000}{1,677,363}$ | 144,799,982 | $\frac{133}{181}$ | 144,800,017 | $\frac{48}{181}$ | 5,792 |
| 69 | $\frac{3,686,331}{8,294,401}$ | 99,999 | $\frac{8,094,401}{8,294,401}$ | 69 | $\frac{3,686,469}{8,294,399}$ | 100,000 | $\frac{200,000}{8,294,399}$ | 143,999,982 | $\frac{23}{36}$ | 144,000,017 | $\frac{13}{36}$ | 5,760 |
| 69 | $\frac{6,827,797}{8,202,497}$ | 99,999 | $\frac{8,002,497}{8,202,497}$ | 69 | $\frac{1,365,569}{1,640,499}$ | 100,000 | $\frac{40,000}{1,640,499}$ | 143,199,982 | $\frac{97}{179}$ | 143,200,017 | $\frac{82}{179}$ | 5,728 |
| 70 | $\frac{364,530}{1,622,221}$ | 99,999 | $\frac{1,622,221}{1,622,221}$ | 70 | $\frac{1,822,790}{8,111,103}$ | 100,000 | $\frac{200,000}{8,111,103}$ | 142,399,982 | $\frac{79}{178}$ | 142,400,017 | $\frac{99}{178}$ | 5,696 |
| 70 | $\frac{199,370}{320,809}$ | 99,999 | $\frac{312,809}{320,809}$ | 70 | $\frac{4,984,390}{8,020,223}$ | 100,000 | $\frac{200,000}{8,020,223}$ | 141,599,982 | $\frac{61}{177}$ | 141,600,017 | $\frac{116}{177}$ | 5,664 |
| 71 | $\frac{180,153}{7,929,857}$ | 99,999 | $\frac{7,729,857}{7,929,857}$ | 71 | $\frac{36,059}{1,585,971}$ | 100,000 | $\frac{40,000}{1,585,971}$ | 140,799,982 | $\frac{43}{176}$ | 140,800,017 | $\frac{133}{176}$ | 5,632 |
| 71 | $\frac{3,359,929}{7,840,001}$ | 99,999 | $\frac{7,640,001}{7,840,001}$ | 71 | $\frac{3,360,071}{7,839,999}$ | 100,000 | $\frac{200,000}{7,839,999}$ | 139,999,982 | $\frac{1}{7}$ | 140,000,017 | $\frac{6}{7}$ | 5,600 |
| 71 | $\frac{6,503,353}{7,750,657}$ | 99,999 | $\frac{7,550,657}{7,750,657}$ | 71 | $\frac{1,300,699}{1,559,131}$ | 100,000 | $\frac{40,000}{1,559,131}$ | 139,199,982 | $\frac{7}{174}$ | 139,200,017 | $\frac{167}{174}$ | 5,568 |
| 72 | $\frac{77,944}{306,473}$ | 99,999 | $\frac{298,473}{306,473}$ | 72 | $\frac{1,948,744}{7,661,823}$ | 100,000 | $\frac{200,000}{7,661,823}$ | 138,399,981 | $\frac{162}{173}$ | 138,400,018 | $\frac{11}{173}$ | 5,536 |
| 72 | $\frac{1,021,528}{1,514,701}$ | 99,999 | $\frac{1,474,701}{1,514,701}$ | 72 | $\frac{5,107,784}{7,573,593}$ | 100,000 | $\frac{200,000}{7,573,593}$ | 137,599,981 | $\frac{143}{172}$ | 137,600,018 | $\frac{29}{172}$ | 5,504 |
| 73 | $\frac{744,119}{7,485,697}$ | 99,999 | $\frac{7,285,697}{7,485,697}$ | 73 | $\frac{148,853}{1,497,139}$ | 100,000 | $\frac{40,000}{1,497,139}$ | 136,799,981 | $\frac{124}{171}$ | 136,800,018 | $\frac{47}{171}$ | 5,472 |
| 73 | $\frac{3,916,727}{7,398,401}$ | 99,999 | $\frac{7,198,401}{7,398,401}$ | 73 | $\frac{3,916,873}{7,398,399}$ | 100,000 | $\frac{200,000}{7,398,399}$ | 135,999,981 | $\frac{21}{34}$ | 136,000,018 | $\frac{13}{34}$ | 5,440 |
| 73 | $\frac{7,051,959}{7,311,617}$ | 99,999 | $\frac{7,111,617}{7,311,617}$ | 73 | $\frac{1,410,421}{1,462,323}$ | 100,000 | $\frac{40,000}{1,462,323}$ | 135,199,981 | $\frac{86}{169}$ | 135,200,018 | $\frac{83}{169}$ | 5,408 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | Numeri primi Baseos |
| 100,000 | | Hypotenusa | | 100,000 | | Perpendicularum | | 100,000 | | Basis | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | | 27 |
|---------------------|-------------------------------|------------------------|-------------------------------|-----------------|-------------------------------|-------------------|-----------------------------|------------------------|-------------------|-------------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 93 | $\frac{1303,459}{4,596,737}$ | 99,999 | $\frac{4396,737}{4,596,737}$ | 93 | $\frac{260,729}{919,347}$ | 100,000 | $\frac{40,000}{919,347}$ | 107,199,976 | $\frac{91}{134}$ | 107,200,023 | $\frac{43}{134}$ | 4,288 |
| 93 | $\frac{892,039}{905,677}$ | 99,999 | $\frac{865,677}{905,677}$ | 93 | $\frac{4460,381}{4,528,383}$ | 100,000 | $\frac{200,000}{4,528,383}$ | 106,399,976 | $\frac{67}{133}$ | 106,400,023 | $\frac{66}{133}$ | 4,256 |
| 94 | $\frac{621,754}{892,109}$ | 99,999 | $\frac{852,109}{892,109}$ | 94 | $\frac{3108,958}{4,460,543}$ | 100,000 | $\frac{200,000}{4,460,543}$ | 105,599,976 | $\frac{43}{132}$ | 105,600,023 | $\frac{89}{132}$ | 4,224 |
| 95 | $\frac{1,844,385}{4,393,217}$ | 99,999 | $\frac{4,193,217}{4,393,217}$ | 95 | $\frac{368,915}{878,643}$ | 100,000 | $\frac{40,000}{878,643}$ | 104,799,976 | $\frac{19}{131}$ | 104,800,023 | $\frac{112}{131}$ | 4,192 |
| 96 | $\frac{665,504}{4,326,401}$ | 99,999 | $\frac{4,126,401}{4,326,401}$ | 96 | $\frac{665,666}{4,326,399}$ | 100,000 | $\frac{200,000}{4,326,399}$ | 103,999,975 | $\frac{25}{26}$ | 104,000,024 | $\frac{1}{26}$ | 4,160 |
| 96 | $\frac{3,830,688}{4,260,097}$ | 99,999 | $\frac{4,060,097}{4,260,097}$ | 96 | $\frac{766,176}{852,019}$ | 100,000 | $\frac{40,000}{852,019}$ | 103,199,975 | $\frac{100}{129}$ | 103,200,024 | $\frac{29}{129}$ | 4,128 |
| 97 | $\frac{550,483}{838,861}$ | 99,999 | $\frac{798,861}{838,861}$ | 97 | $\frac{2,752,609}{4,194,303}$ | 100,000 | $\frac{200,000}{4,194,303}$ | 102,399,975 | $\frac{75}{128}$ | 102,400,024 | $\frac{53}{128}$ | 4,096 |
| 98 | $\frac{70,222}{165,161}$ | 99,999 | $\frac{157,161}{165,161}$ | 98 | $\frac{1,755,746}{4,129,023}$ | 100,000 | $\frac{200,000}{4,129,023}$ | 101,599,975 | $\frac{50}{127}$ | 101,600,024 | $\frac{77}{127}$ | 4,064 |
| 99 | $\frac{838,557}{4,064,257}$ | 99,999 | $\frac{3,864,257}{4,064,257}$ | 99 | $\frac{167,751}{812,851}$ | 100,000 | $\frac{40,000}{812,851}$ | 100,799,975 | $\frac{25}{126}$ | 100,800,024 | $\frac{101}{126}$ | 4,032 |
| 99 | $\frac{3,999,901}{4,000,001}$ | 99,999 | $\frac{3,800,001}{4,000,001}$ | 100 | $\frac{100}{3,999,999}$ | 100,000 | $\frac{200,000}{3,999,999}$ | 99,999,975 | | 100,000,025 | | 4,000 |
| 100 | $\frac{3,174,300}{3,936,257}$ | 99,999 | $\frac{3,736,257}{3,936,257}$ | 100 | $\frac{634,900}{787,251}$ | 100,000 | $\frac{40,000}{787,251}$ | 99,199,974 | $\frac{99}{124}$ | 99,200,025 | $\frac{25}{124}$ | 3,968 |
| 101 | $\frac{96,979}{154,921}$ | 99,999 | $\frac{146,921}{154,921}$ | 101 | $\frac{2,424,677}{3,873,023}$ | 100,000 | $\frac{200,000}{3,873,023}$ | 98,399,974 | $\frac{73}{123}$ | 98,400,025 | $\frac{50}{123}$ | 3,936 |
| 102 | $\frac{349,778}{762,061}$ | 99,999 | $\frac{722,061}{762,061}$ | 102 | $\frac{1,749,094}{3,810,303}$ | 100,000 | $\frac{200,000}{3,810,303}$ | 97,599,974 | $\frac{47}{122}$ | 97,600,025 | $\frac{75}{122}$ | 3,904 |
| 103 | $\frac{1,146,009}{3,748,097}$ | 99,999 | $\frac{3,548,097}{3,748,097}$ | 103 | $\frac{229,243}{749,619}$ | 100,000 | $\frac{40,000}{749,619}$ | 96,799,974 | $\frac{21}{121}$ | 96,800,025 | $\frac{100}{121}$ | 3,872 |
| 104 | $\frac{614,296}{3,686,401}$ | 99,999 | $\frac{3,864,401}{3,686,401}$ | 104 | $\frac{614,504}{3,686,399}$ | 100,000 | $\frac{200,000}{3,686,399}$ | 95,999,973 | $\frac{23}{24}$ | 96,000,026 | $\frac{1}{24}$ | 3,840 |
| 105 | $\frac{152,215}{3,625,217}$ | 99,999 | $\frac{3,425,217}{3,625,217}$ | 105 | $\frac{39,485}{725,043}$ | 100,000 | $\frac{40,000}{725,043}$ | 95,199,973 | $\frac{88}{119}$ | 95,200,026 | $\frac{31}{119}$ | 3,808 |
| 105 | $\frac{664,555}{712,909}$ | 99,999 | $\frac{672,909}{712,909}$ | 105 | $\frac{3,322,985}{3,564,543}$ | 100,000 | $\frac{200,000}{3,564,543}$ | 94,399,973 | $\frac{61}{118}$ | 94,400,026 | $\frac{57}{118}$ | 3,776 |
| 106 | $\frac{587,038}{700,877}$ | 99,999 | $\frac{660,877}{700,877}$ | 106 | $\frac{2,935,402}{3,504,383}$ | 100,000 | $\frac{200,000}{3,504,383}$ | 93,599,973 | $\frac{34}{117}$ | 93,600,026 | $\frac{83}{117}$ | 3,744 |
| 107 | $\frac{2,613,141}{3,444,737}$ | 99,999 | $\frac{3,244,737}{3,444,737}$ | 107 | $\frac{522,671}{688,947}$ | 100,000 | $\frac{40,000}{688,947}$ | 92,799,973 | $\frac{7}{116}$ | 92,800,026 | $\frac{109}{116}$ | 3,712 |
| 108 | $\frac{2,355,092}{3,385,601}$ | 99,999 | $\frac{3,185,601}{3,385,601}$ | 108 | $\frac{2,355,308}{3,385,599}$ | 100,000 | $\frac{200,000}{3,385,599}$ | 91,999,972 | $\frac{19}{23}$ | 92,000,027 | $\frac{4}{23}$ | 3,680 |
| 109 | $\frac{2,159,597}{3,326,977}$ | 99,999 | $\frac{3,126,977}{3,326,977}$ | 109 | $\frac{86,389}{133,079}$ | 100,000 | $\frac{8,000}{133,079}$ | 91,199,972 | $\frac{67}{114}$ | 91,200,027 | $\frac{47}{114}$ | 3,648 |
| 110 | $\frac{404,970}{653,773}$ | 99,999 | $\frac{613,773}{653,773}$ | 110 | $\frac{2,025,070}{3,268,863}$ | 100,000 | $\frac{200,000}{3,268,863}$ | 90,399,972 | $\frac{39}{113}$ | 90,400,027 | $\frac{74}{113}$ | 3,616 |
| 111 | $\frac{389,917}{642,253}$ | 99,999 | $\frac{602,253}{642,253}$ | 111 | $\frac{1,949,807}{3,211,263}$ | 100,000 | $\frac{200,000}{3,211,263}$ | 89,599,972 | $\frac{11}{112}$ | 89,600,027 | $\frac{101}{112}$ | 3,584 |
| 112 | $\frac{1,932,176}{3,154,177}$ | 99,999 | $\frac{2,954,177}{3,154,177}$ | 112 | $\frac{77,296}{126,167}$ | 100,000 | $\frac{8,000}{126,167}$ | 88,799,971 | $\frac{94}{111}$ | 88,800,028 | $\frac{17}{111}$ | 3,552 |
| 113 | $\frac{1,971,087}{3,097,601}$ | 99,999 | $\frac{2,897,601}{3,097,601}$ | 113 | $\frac{1,971,313}{3,097,599}$ | 100,000 | $\frac{200,000}{3,097,599}$ | 87,999,971 | $\frac{13}{22}$ | 88,000,028 | $\frac{9}{22}$ | 3,520 |
| 114 | $\frac{2,064,782}{3,041,537}$ | 99,999 | $\frac{2,841,537}{3,041,537}$ | 114 | $\frac{413,002}{608,307}$ | 100,000 | $\frac{40,000}{608,307}$ | 87,199,971 | $\frac{36}{109}$ | 87,200,028 | $\frac{73}{109}$ | 3,488 |
| 115 | $\frac{442,345}{597,197}$ | 99,999 | $\frac{557,197}{597,197}$ | 115 | $\frac{2,211,955}{2,985,983}$ | 100,000 | $\frac{200,000}{2,985,983}$ | 86,399,971 | $\frac{7}{108}$ | 86,400,028 | $\frac{101}{108}$ | 3,456 |
| 116 | $\frac{482,076}{586,189}$ | 99,999 | $\frac{546,189}{586,189}$ | 116 | $\frac{2,410,612}{2,939,943}$ | 100,000 | $\frac{200,000}{2,939,943}$ | 85,599,970 | $\frac{85}{107}$ | 85,600,029 | $\frac{22}{107}$ | 3,424 |
| 117 | $\frac{2,659,211}{2,876,417}$ | 99,999 | $\frac{2,676,417}{2,876,417}$ | 117 | $\frac{531,889}{575,283}$ | 100,000 | $\frac{40,000}{575,283}$ | 84,799,970 | $\frac{55}{106}$ | 84,800,029 | $\frac{51}{106}$ | 3,392 |
| 119 | $\frac{134,281}{2,822,401}$ | 99,999 | $\frac{2,622,401}{2,822,401}$ | 119 | $\frac{134,519}{2,822,399}$ | 100,000 | $\frac{200,000}{2,822,399}$ | 83,999,970 | $\frac{5}{21}$ | 84,000,029 | $\frac{16}{21}$ | 3,360 |
| 120 | $\frac{532,360}{2,768,897}$ | 99,999 | $\frac{2,668,897}{2,768,897}$ | 120 | $\frac{106,520}{553,779}$ | 100,000 | $\frac{40,000}{553,779}$ | 83,199,969 | $\frac{99}{104}$ | 83,200,030 | $\frac{5}{104}$ | 3,328 |
| 121 | $\frac{195,099}{543,181}$ | 99,999 | $\frac{503,181}{543,181}$ | 121 | $\frac{975,737}{2,715,903}$ | 100,000 | $\frac{200,000}{2,715,903}$ | 82,399,969 | $\frac{68}{103}$ | 82,400,030 | $\frac{35}{103}$ | 3,296 |
| 122 | $\frac{58,486}{106,537}$ | 99,999 | $\frac{98,537}{106,537}$ | 122 | $\frac{1,462,394}{2,663,423}$ | 100,000 | $\frac{200,000}{2,663,423}$ | 81,599,969 | $\frac{37}{102}$ | 81,600,030 | $\frac{65}{102}$ | 3,264 |
| 123 | $\frac{1,990,789}{2,611,457}$ | 99,999 | $\frac{2,411,457}{2,611,457}$ | 123 | $\frac{398,207}{522,291}$ | 100,000 | $\frac{40,000}{522,291}$ | 80,799,969 | $\frac{6}{101}$ | 80,800,030 | $\frac{95}{101}$ | 3,232 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | Numeri primi Baseos |
| 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | |
| Hypotenusa | | Hypotenusa | | Perpendicularum | | Perpendicularum | | Basis | | Basis | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 28 CANONION TRIANGVLORVM | | | | | | | | | | | | | |
|--------------------------|-------------------|------------------------|------------|-------------------|-------------------|-----------------------------|--------------|-------------------------------|---------|-------------------------------|------------------------|-------------------------------|--------------|
| SERIES III. | | | | SERIES II. | | | | SERIES I. | | | | | |
| 3,200 | 80,000,031 | $\frac{1}{4}$ | 79,999,968 | $\frac{3}{4}$ | 100,000 | $\frac{200,000}{2,559,999}$ | 125 | $\frac{125}{2,559,999}$ | 99,999 | $\frac{2,360,001}{2,560,001}$ | 124 | $\frac{2,559,876}{2,560,001}$ | |
| 3,184 | 79,600,031 | $\frac{81}{199}$ | 79,599,968 | $\frac{118}{199}$ | 100,000 | $\frac{200,000}{2,534,463}$ | 125 | $\frac{1,592,125}{2,534,463}$ | 99,999 | $\frac{466,893}{506,893}$ | 125 | $\frac{318,375}{506,893}$ | |
| 3,168 | 79,200,031 | $\frac{56}{99}$ | 79,199,968 | $\frac{43}{99}$ | 100,000 | $\frac{40,000}{501,811}$ | 126 | $\frac{131,814}{501,811}$ | 99,999 | $\frac{2,309,057}{2,509,057}$ | 126 | $\frac{658,818}{2,509,057}$ | |
| 3,152 | 78,800,031 | $\frac{143}{197}$ | 78,799,968 | $\frac{54}{197}$ | 100,000 | $\frac{8,000}{99,351}$ | 126 | $\frac{89,774}{99,351}$ | 99,999 | $\frac{2,283,777}{2,483,777}$ | 126 | $\frac{2,244,098}{2,483,777}$ | |
| 3,136 | 78,400,031 | $\frac{87}{98}$ | 78,399,968 | $\frac{11}{98}$ | 100,000 | $\frac{200,000}{2,458,623}$ | 127 | $\frac{1,354,879}{2,458,623}$ | 99,999 | $\frac{18,069}{19,669}$ | 127 | $\frac{10,837}{19,669}$ | |
| 3,120 | 78,000,032 | $\frac{2}{39}$ | 77,999,967 | $\frac{37}{39}$ | 100,000 | $\frac{200,000}{2,433,599}$ | 128 | $\frac{499,328}{2,433,599}$ | 99,999 | $\frac{2,233,601}{2,433,601}$ | 128 | $\frac{499,072}{2,433,601}$ | |
| 3,104 | 77,600,032 | $\frac{21}{97}$ | 77,599,967 | $\frac{76}{97}$ | 100,000 | $\frac{200,000}{2,408,703}$ | 128 | $\frac{2,086,016}{2,408,703}$ | 99,999 | $\frac{441,741}{481,741}$ | 128 | $\frac{417,152}{481,741}$ | |
| 3,088 | 77,200,032 | $\frac{74}{193}$ | 77,199,967 | $\frac{119}{193}$ | 100,000 | $\frac{40,000}{476,787}$ | 129 | $\frac{254,477}{476,787}$ | 99,999 | $\frac{2,183,937}{2,383,937}$ | 129 | $\frac{1,272,127}{2,383,937}$ | |
| 3,072 | 76,800,032 | $\frac{53}{96}$ | 76,799,967 | $\frac{43}{96}$ | 100,000 | $\frac{40,000}{471,859}$ | 130 | $\frac{98,330}{471,859}$ | 99,999 | $\frac{2,159,297}{2,359,297}$ | 130 | $\frac{491,390}{2,359,297}$ | |
| 3,056 | 76,400,032 | $\frac{138}{191}$ | 76,399,967 | $\frac{53}{191}$ | 100,000 | $\frac{200,000}{2,334,783}$ | 130 | $\frac{2,078,210}{2,334,783}$ | 99,999 | $\frac{426,957}{466,957}$ | 130 | $\frac{415,590}{466,957}$ | |
| 3,040 | 76,000,032 | $\frac{17}{19}$ | 75,999,967 | $\frac{2}{19}$ | 100,000 | $\frac{200,000}{2,310,399}$ | 131 | $\frac{1,337,731}{2,310,399}$ | 99,999 | $\frac{2,110,401}{2,310,401}$ | 131 | $\frac{1,337,469}{2,310,401}$ | |
| 3,024 | 75,600,033 | $\frac{13}{189}$ | 75,599,966 | $\frac{176}{189}$ | 100,000 | $\frac{200,000}{2,286,143}$ | 132 | $\frac{629,124}{2,286,143}$ | 99,999 | $\frac{417,229}{457,229}$ | 132 | $\frac{125,772}{457,229}$ | |
| 3,008 | 75,200,033 | $\frac{23}{94}$ | 75,199,966 | $\frac{71}{94}$ | 100,000 | $\frac{40,000}{452,403}$ | 132 | $\frac{442,804}{452,403}$ | 99,999 | $\frac{2,062,017}{2,262,017}$ | 132 | $\frac{2,213,756}{2,262,017}$ | |
| 2,992 | 74,800,033 | $\frac{79}{187}$ | 74,799,966 | $\frac{108}{187}$ | 100,000 | $\frac{40,000}{447,603}$ | 133 | $\frac{308,801}{447,603}$ | 99,999 | $\frac{2,038,017}{2,238,017}$ | 133 | $\frac{1,543,739}{2,238,017}$ | |
| 2,976 | 74,400,033 | $\frac{56}{93}$ | 74,399,966 | $\frac{37}{93}$ | 100,000 | $\frac{200,000}{2,214,143}$ | 134 | $\frac{904,838}{2,214,143}$ | 99,999 | $\frac{402,829}{442,829}$ | 134 | $\frac{180,914}{442,829}$ | |
| 2,960 | 74,000,033 | $\frac{29}{37}$ | 73,999,966 | $\frac{8}{37}$ | 100,000 | $\frac{200,000}{2,190,399}$ | 135 | $\frac{296,135}{2,190,399}$ | 99,999 | $\frac{1,990,401}{2,190,401}$ | 135 | $\frac{295,865}{2,190,401}$ | |
| 2,944 | 73,600,033 | $\frac{89}{92}$ | 73,599,966 | $\frac{3}{92}$ | 100,000 | $\frac{200,000}{2,166,783}$ | 135 | $\frac{1,884,295}{2,166,783}$ | 99,999 | $\frac{393,357}{433,357}$ | 135 | $\frac{376,805}{433,357}$ | |
| 2,928 | 73,200,034 | $\frac{28}{183}$ | 73,199,965 | $\frac{155}{183}$ | 100,000 | $\frac{40,000}{428,659}$ | 136 | $\frac{262,376}{428,659}$ | 99,999 | $\frac{1,943,297}{2,143,297}$ | 136 | $\frac{1,311,608}{2,143,297}$ | |
| 2,912 | 72,800,034 | $\frac{31}{91}$ | 72,799,965 | $\frac{60}{91}$ | 100,000 | $\frac{40,000}{423,987}$ | 137 | $\frac{153,781}{423,987}$ | 99,999 | $\frac{1,919,937}{2,119,937}$ | 137 | $\frac{768,631}{2,119,937}$ | |
| 2,896 | 72,400,034 | $\frac{96}{181}$ | 72,399,965 | $\frac{85}{181}$ | 100,000 | $\frac{200,000}{2,096,703}$ | 138 | $\frac{254,986}{2,096,703}$ | 99,999 | $\frac{379,341}{419,341}$ | 138 | $\frac{50,942}{419,341}$ | |
| 2,880 | 72,000,034 | $\frac{13}{18}$ | 71,999,965 | $\frac{5}{18}$ | 100,000 | $\frac{200,000}{2,073,599}$ | 138 | $\frac{1,843,338}{2,073,599}$ | 99,999 | $\frac{1,873,601}{2,073,601}$ | 138 | $\frac{1,843,062}{2,073,601}$ | |
| 2,864 | 71,600,034 | $\frac{164}{179}$ | 71,599,965 | $\frac{15}{179}$ | 100,000 | $\frac{200,000}{2,050,623}$ | 139 | $\frac{1,363,493}{2,050,623}$ | 99,999 | $\frac{2,961}{3,281}$ | 139 | $\frac{2,181}{3,281}$ | |
| 2,848 | 71,200,035 | $\frac{10}{89}$ | 71,199,964 | $\frac{79}{89}$ | 100,000 | $\frac{8,000}{81,111}$ | 140 | $\frac{36,460}{81,111}$ | 99,999 | $\frac{1,827,777}{2,027,777}$ | 140 | $\frac{911,220}{2,027,777}$ | |
| 2,832 | 70,800,035 | $\frac{55}{177}$ | 70,799,964 | $\frac{122}{177}$ | 100,000 | $\frac{40,000}{401,011}$ | 141 | $\frac{97,449}{401,011}$ | 99,999 | $\frac{1,805,057}{2,005,057}$ | 141 | $\frac{486,063}{2,005,057}$ | |
| 2,816 | 70,400,035 | $\frac{45}{88}$ | 70,399,964 | $\frac{43}{88}$ | 100,000 | $\frac{200,000}{1,982,463}$ | 142 | $\frac{90,254}{1,982,463}$ | 99,999 | $\frac{356,493}{396,493}$ | 142 | $\frac{17,994}{396,493}$ | |
| 2,800 | 70,000,035 | $\frac{5}{7}$ | 69,999,964 | $\frac{2}{7}$ | 100,000 | $\frac{200,000}{1,959,999}$ | 142 | $\frac{1,680,142}{1,959,999}$ | 99,999 | $\frac{1,760,001}{1,960,001}$ | 142 | $\frac{1,679,858}{1,960,001}$ | |
| 2,784 | 69,600,035 | $\frac{80}{87}$ | 69,599,964 | $\frac{7}{87}$ | 100,000 | $\frac{200,000}{1,937,663}$ | 143 | $\frac{1,314,191}{1,937,663}$ | 99,999 | $\frac{347,533}{387,533}$ | 143 | $\frac{262,781}{387,533}$ | |
| 2,768 | 69,200,036 | $\frac{22}{173}$ | 69,199,963 | $\frac{151}{173}$ | 100,000 | $\frac{40,000}{383,091}$ | 144 | $\frac{194,896}{383,091}$ | 99,999 | $\frac{1,715,457}{1,915,457}$ | 144 | $\frac{974,192}{1,915,457}$ | |
| 2,752 | 68,800,036 | $\frac{29}{86}$ | 68,799,963 | $\frac{57}{86}$ | 100,000 | $\frac{1,600}{15,147}$ | 145 | $\frac{5,285}{15,147}$ | 99,999 | $\frac{1,693,377}{1,893,377}$ | 145 | $\frac{660,335}{1,893,377}$ | |
| 2,736 | 68,400,036 | $\frac{94}{171}$ | 68,399,963 | $\frac{77}{171}$ | 100,000 | $\frac{200,000}{1,871,423}$ | 146 | $\frac{372,242}{1,871,423}$ | 99,999 | $\frac{66,857}{74,857}$ | 146 | $\frac{14,878}{74,857}$ | |
| 2,720 | 68,000,036 | $\frac{13}{17}$ | 67,999,963 | $\frac{4}{17}$ | 100,000 | $\frac{200,000}{1,849,599}$ | 147 | $\frac{108,947}{1,849,599}$ | 99,999 | $\frac{1,649,601}{1,849,601}$ | 147 | $\frac{108,653}{1,849,601}$ | |
| 2,704 | 67,600,036 | $\frac{166}{169}$ | 67,599,963 | $\frac{3}{169}$ | 100,000 | $\frac{200,000}{1,827,903}$ | 147 | $\frac{1,698,259}{1,827,903}$ | 99,999 | $\frac{325,581}{365,581}$ | 147 | $\frac{339,593}{365,581}$ | |
| Numeri primi Baseos | <i>Hypotenusa</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Hypotenusa</i> | 100,000 | <i>Basis</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 29 | |
|---------------------|-------------------------------|------------------------|-------------------------------|--------------|-------------------------------|-------------------|-----------------------------|------------------------|-------------------|-------------------|-------------------|----------------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 148 | $\frac{1462,124}{1,806,337}$ | 99,999 | $\frac{1,606,337}{1,806,337}$ | 148 | $\frac{292,484}{361,267}$ | 100,000 | $\frac{40,000}{361,267}$ | 67,199,962 | $\frac{67}{84}$ | 67,200,037 | $\frac{17}{84}$ | 2,688 |
| 149 | $\frac{1,250,347}{1,784,897}$ | 99,999 | $\frac{1,584,897}{1,784,897}$ | 149 | $\frac{250,129}{356,979}$ | 100,000 | $\frac{40,000}{356,979}$ | 66,799,962 | $\frac{96}{167}$ | 66,800,037 | $\frac{71}{167}$ | 2,672 |
| 150 | $\frac{212,450}{352,717}$ | 99,999 | $\frac{312,717}{352,717}$ | 150 | $\frac{1,062,550}{1,763,583}$ | 100,000 | $\frac{200,000}{1,763,583}$ | 66,399,962 | $\frac{29}{83}$ | 66,400,037 | $\frac{54}{83}$ | 2,656 |
| 151 | $\frac{897,449}{1,742,401}$ | 99,999 | $\frac{1,542,401}{1,742,401}$ | 151 | $\frac{897,751}{1,742,399}$ | 100,000 | $\frac{200,000}{1,742,399}$ | 65,999,962 | $\frac{4}{33}$ | 66,000,037 | $\frac{29}{33}$ | 2,640 |
| 152 | $\frac{151,112}{344,269}$ | 99,999 | $\frac{304,269}{344,269}$ | 152 | $\frac{755,864}{1,721,343}$ | 100,000 | $\frac{200,000}{1,721,343}$ | 65,599,961 | $\frac{73}{82}$ | 65,600,038 | $\frac{9}{82}$ | 2,624 |
| 153 | $\frac{636,199}{1,700,417}$ | 99,999 | $\frac{1,500,417}{1,700,417}$ | 153 | $\frac{127,301}{340,083}$ | 100,000 | $\frac{40,000}{340,083}$ | 65,199,961 | $\frac{107}{163}$ | 65,200,038 | $\frac{56}{163}$ | 2,608 |
| 154 | $\frac{538,982}{1,679,617}$ | 99,999 | $\frac{1,479,617}{1,679,617}$ | 154 | $\frac{107,858}{335,923}$ | 100,000 | $\frac{40,000}{335,923}$ | 64,799,961 | $\frac{34}{81}$ | 64,800,038 | $\frac{47}{81}$ | 2,592 |
| 155 | $\frac{92,705}{331,789}$ | 99,999 | $\frac{291,789}{331,789}$ | 155 | $\frac{463,835}{1,658,943}$ | 100,000 | $\frac{200,000}{1,658,943}$ | 64,399,961 | $\frac{29}{161}$ | 64,400,038 | $\frac{132}{161}$ | 2,576 |
| 156 | $\frac{409,444}{1,638,401}$ | 99,999 | $\frac{1,438,401}{1,638,401}$ | 156 | $\frac{409,756}{1,638,399}$ | 100,000 | $\frac{200,000}{1,638,399}$ | 63,999,960 | $\frac{15}{16}$ | 64,000,039 | $\frac{1}{16}$ | 2,560 |
| 157 | $\frac{75,271}{323,597}$ | 99,999 | $\frac{283,597}{323,597}$ | 157 | $\frac{376,669}{1,617,983}$ | 100,000 | $\frac{200,000}{1,617,983}$ | 63,599,960 | $\frac{110}{159}$ | 63,600,039 | $\frac{49}{159}$ | 2,544 |
| 158 | $\frac{363,874}{1,597,697}$ | 99,999 | $\frac{1,397,697}{1,597,697}$ | 158 | $\frac{72,838}{319,539}$ | 100,000 | $\frac{40,000}{319,539}$ | 63,199,960 | $\frac{35}{79}$ | 63,200,039 | $\frac{44}{79}$ | 2,528 |
| 159 | $\frac{371,617}{1,577,537}$ | 99,999 | $\frac{1,377,537}{1,577,537}$ | 159 | $\frac{74,387}{315,507}$ | 100,000 | $\frac{40,000}{315,507}$ | 62,799,960 | $\frac{39}{157}$ | 62,800,039 | $\frac{127}{157}$ | 2,512 |
| 160 | $\frac{79,840}{311,501}$ | 99,999 | $\frac{271,501}{311,501}$ | 160 | $\frac{399,520}{1,557,503}$ | 100,000 | $\frac{200,000}{1,557,503}$ | 62,399,959 | $\frac{73}{78}$ | 62,400,040 | $\frac{5}{78}$ | 2,496 |
| 161 | $\frac{446,239}{1,537,601}$ | 99,999 | $\frac{1,337,601}{1,537,601}$ | 161 | $\frac{446,561}{1,537,599}$ | 100,000 | $\frac{200,000}{1,537,599}$ | 61,999,959 | $\frac{21}{31}$ | 62,000,040 | $\frac{10}{31}$ | 2,480 |
| 162 | $\frac{20,494}{60,713}$ | 99,999 | $\frac{52,713}{60,713}$ | 162 | $\frac{512,674}{1,517,823}$ | 100,000 | $\frac{200,000}{1,517,823}$ | 61,599,959 | $\frac{32}{77}$ | 61,600,040 | $\frac{45}{77}$ | 2,464 |
| 163 | $\frac{597,149}{1,498,177}$ | 99,999 | $\frac{1,298,177}{1,498,177}$ | 163 | $\frac{23,899}{59,927}$ | 100,000 | $\frac{8,000}{59,927}$ | 61,199,959 | $\frac{23}{153}$ | 61,200,040 | $\frac{130}{153}$ | 2,448 |
| 164 | $\frac{700,252}{1,478,657}$ | 99,999 | $\frac{1,278,657}{1,478,657}$ | 164 | $\frac{140,116}{295,731}$ | 100,000 | $\frac{40,000}{295,731}$ | 60,799,958 | $\frac{67}{76}$ | 60,800,041 | $\frac{9}{76}$ | 2,432 |
| 165 | $\frac{164,255}{291,853}$ | 99,999 | $\frac{251,853}{291,853}$ | 165 | $\frac{821,605}{1,459,263}$ | 100,000 | $\frac{200,000}{1,459,263}$ | 60,399,958 | $\frac{92}{151}$ | 60,400,041 | $\frac{59}{151}$ | 2,416 |
| 166 | $\frac{950,834}{1,440,001}$ | 99,999 | $\frac{1,240,001}{1,440,001}$ | 166 | $\frac{960,166}{1,439,999}$ | 100,000 | $\frac{200,000}{1,439,999}$ | 59,999,958 | $\frac{1}{3}$ | 60,000,041 | $\frac{2}{3}$ | 2,400 |
| 167 | $\frac{223,109}{284,173}$ | 99,999 | $\frac{244,173}{284,173}$ | 167 | $\frac{1,115,879}{1,420,863}$ | 100,000 | $\frac{200,000}{1,420,863}$ | 59,599,958 | $\frac{8}{149}$ | 59,600,041 | $\frac{141}{149}$ | 2,384 |
| 168 | $\frac{1,288,024}{1,401,857}$ | 99,999 | $\frac{1,201,857}{1,401,857}$ | 168 | $\frac{257,672}{280,371}$ | 100,000 | $\frac{40,000}{280,371}$ | 59,199,957 | $\frac{57}{74}$ | 59,200,042 | $\frac{17}{74}$ | 2,368 |
| 170 | $\frac{93,910}{1,382,977}$ | 99,999 | $\frac{1,182,977}{1,382,977}$ | 170 | $\frac{3,770}{55,319}$ | 100,000 | $\frac{8,000}{55,319}$ | 58,799,957 | $\frac{71}{147}$ | 58,800,042 | $\frac{76}{147}$ | 2,352 |
| 171 | $\frac{12,701}{54,569}$ | 99,999 | $\frac{46,569}{54,569}$ | 171 | $\frac{317,867}{1,364,223}$ | 100,000 | $\frac{200,000}{1,364,223}$ | 58,399,957 | $\frac{14}{73}$ | 58,400,042 | $\frac{59}{73}$ | 2,336 |
| 172 | $\frac{556,628}{1,345,601}$ | 99,999 | $\frac{1,145,601}{1,345,601}$ | 172 | $\frac{556,972}{1,345,599}$ | 100,000 | $\frac{200,000}{1,345,599}$ | 57,999,956 | $\frac{26}{29}$ | 58,000,043 | $\frac{3}{29}$ | 2,320 |
| 173 | $\frac{162,167}{265,421}$ | 99,999 | $\frac{225,421}{265,421}$ | 173 | $\frac{811,181}{1,327,103}$ | 100,000 | $\frac{200,000}{1,327,103}$ | 57,599,956 | $\frac{43}{72}$ | 57,600,043 | $\frac{29}{72}$ | 2,304 |
| 174 | $\frac{1,079,762}{1,308,737}$ | 99,999 | $\frac{1,108,737}{1,308,737}$ | 174 | $\frac{216,022}{261,747}$ | 100,000 | $\frac{40,000}{261,747}$ | 57,199,956 | $\frac{42}{143}$ | 57,200,043 | $\frac{101}{143}$ | 2,288 |
| 176 | $\frac{72,528}{1,290,497}$ | 99,999 | $\frac{1,090,497}{1,290,497}$ | 176 | $\frac{14,576}{258,099}$ | 100,000 | $\frac{40,000}{258,099}$ | 56,799,955 | $\frac{70}{71}$ | 56,800,044 | $\frac{1}{71}$ | 2,272 |
| 177 | $\frac{77,571}{254,477}$ | 99,999 | $\frac{214,477}{254,477}$ | 177 | $\frac{388,209}{1,272,383}$ | 100,000 | $\frac{200,000}{1,272,383}$ | 56,399,955 | $\frac{95}{141}$ | 56,400,044 | $\frac{46}{141}$ | 2,256 |
| 178 | $\frac{716,622}{1,254,401}$ | 99,999 | $\frac{1,054,401}{1,254,401}$ | 178 | $\frac{716,978}{1,254,399}$ | 100,000 | $\frac{200,000}{1,254,399}$ | 55,999,955 | $\frac{5}{14}$ | 56,000,044 | $\frac{9}{14}$ | 2,240 |
| 179 | $\frac{211,689}{247,399}$ | 99,999 | $\frac{207,399}{247,399}$ | 179 | $\frac{1,058,803}{1,236,543}$ | 100,000 | $\frac{200,000}{1,236,543}$ | 55,599,955 | $\frac{5}{139}$ | 55,600,044 | $\frac{134}{139}$ | 2,224 |
| 181 | $\frac{194,123}{1,218,817}$ | 99,999 | $\frac{1,018,817}{1,218,817}$ | 181 | $\frac{38,897}{243,763}$ | 100,000 | $\frac{40,000}{243,763}$ | 55,199,954 | $\frac{49}{69}$ | 55,200,045 | $\frac{20}{69}$ | 2,208 |
| 182 | $\frac{578,506}{1,201,217}$ | 99,999 | $\frac{1,001,217}{1,201,217}$ | 182 | $\frac{115,774}{240,243}$ | 100,000 | $\frac{40,000}{240,243}$ | 54,799,954 | $\frac{52}{137}$ | 54,800,045 | $\frac{85}{137}$ | 2,192 |
| 183 | $\frac{194,933}{236,749}$ | 99,999 | $\frac{196,749}{236,749}$ | 183 | $\frac{975,031}{1,183,743}$ | 100,000 | $\frac{200,000}{1,183,743}$ | 54,399,954 | $\frac{3}{68}$ | 54,400,045 | $\frac{65}{68}$ | 2,176 |
| 185 | $\frac{215,815}{1,166,401}$ | 99,999 | $\frac{966,401}{1,166,401}$ | 185 | $\frac{216,185}{1,166,399}$ | 100,000 | $\frac{200,000}{1,166,399}$ | 53,999,953 | $\frac{19}{27}$ | 54,000,046 | $\frac{8}{27}$ | 2,160 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Numeri primi Baseos</i> |
| 100,000 | | Hypotenusa | | 100,000 | | Perpendicularum | | 100,000 | | Basis | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 30 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|-----------------------------|-----------------|-----------------------------|------------------------|-----------------------------|--------------|-------------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 2,144 | 53,600,046 | $\frac{43}{67}$ | 53,599,953 | $\frac{24}{67}$ | 100,000 | $\frac{200,000}{1,149,183}$ | 186 | $\frac{651,962}{1,149,183}$ | 99,999 | $\frac{189,837}{229,837}$ | 186 | $\frac{130,318}{229,837}$ |
| 2,128 | 53,200,046 | $\frac{132}{133}$ | 53,199,953 | $\frac{1}{133}$ | 100,000 | $\frac{40,000}{226,419}$ | 187 | $\frac{219,647}{226,419}$ | 99,999 | $\frac{932,097}{1,132,097}$ | 187 | $\frac{1,097,861}{1,132,097}$ |
| 2,112 | 52,800,047 | $\frac{23}{66}$ | 52,799,952 | $\frac{43}{66}$ | 100,000 | $\frac{40,000}{223,027}$ | 189 | $\frac{87,897}{223,027}$ | 99,999 | $\frac{915,137}{1,115,137}$ | 189 | $\frac{439,107}{1,115,137}$ |
| 2,096 | 52,400,047 | $\frac{93}{131}$ | 52,399,952 | $\frac{38}{131}$ | 100,000 | $\frac{200,000}{1,098,303}$ | 190 | $\frac{922,430}{1,098,303}$ | 99,999 | $\frac{179,661}{219,661}$ | 190 | $\frac{184,410}{219,661}$ |
| 2,080 | 52,000,048 | $\frac{1}{13}$ | 51,999,951 | $\frac{12}{13}$ | 100,000 | $\frac{200,000}{1,081,599}$ | 192 | $\frac{332,992}{1,081,599}$ | 99,999 | $\frac{881,601}{1,081,601}$ | 192 | $\frac{332,608}{1,081,601}$ |
| 2,064 | 51,600,048 | $\frac{58}{129}$ | 51,599,951 | $\frac{71}{129}$ | 100,000 | $\frac{200,000}{1,065,023}$ | 193 | $\frac{850,561}{1,065,023}$ | 99,999 | $\frac{34,601}{42,601}$ | 193 | $\frac{34,007}{42,601}$ |
| 2,048 | 51,200,048 | $\frac{53}{64}$ | 51,199,951 | $\frac{11}{64}$ | 100,000 | $\frac{8,000}{41,943}$ | 195 | $\frac{13,115}{41,943}$ | 99,999 | $\frac{848,577}{1,048,577}$ | 195 | $\frac{327,485}{1,048,577}$ |
| 2,032 | 50,800,049 | $\frac{27}{127}$ | 50,799,950 | $\frac{100}{127}$ | 100,000 | $\frac{40,000}{206,451}$ | 196 | $\frac{175,604}{206,451}$ | 99,999 | $\frac{832,257}{1,032,257}$ | 196 | $\frac{877,628}{1,032,257}$ |
| 2,016 | 50,400,049 | $\frac{38}{63}$ | 50,399,950 | $\frac{25}{63}$ | 100,000 | $\frac{200,000}{1,016,063}$ | 198 | $\frac{419,526}{1,016,063}$ | 99,999 | $\frac{163,213}{203,213}$ | 198 | $\frac{83,826}{203,213}$ |
| 2,000 | 50,000,050 | | 49,999,950 | | 100,000 | $\frac{200,000}{999,999}$ | 200 | $\frac{200}{999,999}$ | 99,999 | $\frac{800,001}{1,000,001}$ | 199 | $\frac{999,801}{1,000,001}$ |
| 1,984 | 49,600,050 | $\frac{25}{62}$ | 49,599,949 | $\frac{37}{62}$ | 100,000 | $\frac{200,000}{984,063}$ | 201 | $\frac{603,337}{984,063}$ | 99,999 | $\frac{156,813}{196,813}$ | 201 | $\frac{120,587}{196,813}$ |
| 1,968 | 49,200,050 | $\frac{100}{123}$ | 49,199,949 | $\frac{23}{123}$ | 100,000 | $\frac{40,000}{193,651}$ | 203 | $\frac{48,847}{193,651}$ | 99,999 | $\frac{768,257}{968,257}$ | 203 | $\frac{243,829}{968,257}$ |
| 1,952 | 48,800,051 | $\frac{14}{61}$ | 48,799,948 | $\frac{47}{61}$ | 100,000 | $\frac{8,000}{38,103}$ | 204 | $\frac{34,988}{38,103}$ | 99,999 | $\frac{752,577}{952,577}$ | 204 | $\frac{874,292}{952,577}$ |
| 1,936 | 48,400,051 | $\frac{79}{121}$ | 48,399,948 | $\frac{42}{121}$ | 100,000 | $\frac{200,000}{937,023}$ | 206 | $\frac{573,262}{937,023}$ | 99,999 | $\frac{29,481}{37,481}$ | 206 | $\frac{22,914}{37,481}$ |
| 1,920 | 48,000,052 | $\frac{1}{12}$ | 47,999,947 | $\frac{11}{12}$ | 100,000 | $\frac{200,000}{921,599}$ | 208 | $\frac{307,408}{921,599}$ | 99,999 | $\frac{721,601}{921,601}$ | 208 | $\frac{306,992}{921,601}$ |
| 1,904 | 47,600,052 | $\frac{62}{119}$ | 47,599,947 | $\frac{57}{119}$ | 100,000 | $\frac{200,000}{906,303}$ | 210 | $\frac{76,370}{906,303}$ | 99,999 | $\frac{141,261}{181,261}$ | 210 | $\frac{15,190}{181,261}$ |
| 1,888 | 47,200,052 | $\frac{57}{59}$ | 47,199,947 | $\frac{2}{59}$ | 100,000 | $\frac{40,000}{178,227}$ | 211 | $\frac{154,103}{178,227}$ | 99,999 | $\frac{691,137}{891,137}$ | 211 | $\frac{770,093}{891,137}$ |
| 1,872 | 46,800,053 | $\frac{49}{117}$ | 46,799,946 | $\frac{68}{117}$ | 100,000 | $\frac{40,000}{175,219}$ | 213 | $\frac{118,353}{175,219}$ | 99,999 | $\frac{676,097}{876,097}$ | 213 | $\frac{591,339}{876,097}$ |
| 1,856 | 46,400,053 | $\frac{51}{58}$ | 46,399,946 | $\frac{7}{58}$ | 100,000 | $\frac{200,000}{861,183}$ | 215 | $\frac{445,655}{861,183}$ | 99,999 | $\frac{132,237}{172,237}$ | 215 | $\frac{89,045}{172,237}$ |
| 1,840 | 46,000,054 | $\frac{8}{23}$ | 45,999,945 | $\frac{15}{23}$ | 100,000 | $\frac{200,000}{846,399}$ | 217 | $\frac{331,417}{846,399}$ | 99,999 | $\frac{646,401}{846,401}$ | 217 | $\frac{330,983}{846,401}$ |
| 1,824 | 45,600,054 | $\frac{47}{57}$ | 45,599,945 | $\frac{10}{57}$ | 100,000 | $\frac{200,000}{831,743}$ | 219 | $\frac{248,283}{831,743}$ | 99,999 | $\frac{126,349}{166,349}$ | 219 | $\frac{49,569}{166,349}$ |
| 1,808 | 45,200,055 | $\frac{35}{113}$ | 45,199,944 | $\frac{78}{113}$ | 100,000 | $\frac{40,000}{163,443}$ | 221 | $\frac{39,097}{163,443}$ | 99,999 | $\frac{617,217}{817,217}$ | 221 | $\frac{195,043}{817,217}$ |
| 1,792 | 44,800,055 | $\frac{45}{56}$ | 44,799,944 | $\frac{11}{56}$ | 100,000 | $\frac{40,000}{160,563}$ | 223 | $\frac{34,451}{160,563}$ | 99,999 | $\frac{602,817}{802,817}$ | 223 | $\frac{171,809}{802,817}$ |
| 1,776 | 44,400,056 | $\frac{34}{111}$ | 44,399,943 | $\frac{77}{111}$ | 100,000 | $\frac{200,000}{788,543}$ | 225 | $\frac{177,825}{788,543}$ | 99,999 | $\frac{117,709}{157,709}$ | 225 | $\frac{35,475}{157,709}$ |
| 1,760 | 44,000,056 | $\frac{9}{11}$ | 43,999,943 | $\frac{2}{11}$ | 100,000 | $\frac{200,000}{774,399}$ | 227 | $\frac{211,427}{774,399}$ | 99,999 | $\frac{574,401}{774,401}$ | 227 | $\frac{210,973}{774,401}$ |
| 1,744 | 43,600,057 | $\frac{37}{109}$ | 43,599,942 | $\frac{72}{109}$ | 100,000 | $\frac{200,000}{760,383}$ | 229 | $\frac{272,293}{760,383}$ | 99,999 | $\frac{112,077}{152,077}$ | 229 | $\frac{54,367}{152,077}$ |
| 1,728 | 43,200,057 | $\frac{47}{54}$ | 43,199,942 | $\frac{7}{54}$ | 100,000 | $\frac{40,000}{149,299}$ | 231 | $\frac{71,931}{149,299}$ | 99,999 | $\frac{546,497}{746,497}$ | 231 | $\frac{359,193}{746,497}$ |
| 1,712 | 42,800,058 | $\frac{44}{107}$ | 42,799,941 | $\frac{63}{107}$ | 100,000 | $\frac{40,000}{146,547}$ | 233 | $\frac{94,549}{146,547}$ | 99,999 | $\frac{532,737}{732,737}$ | 233 | $\frac{472,279}{732,737}$ |
| 1,696 | 42,400,058 | $\frac{51}{53}$ | 42,399,941 | $\frac{2}{53}$ | 100,000 | $\frac{200,000}{719,103}$ | 235 | $\frac{610,795}{719,103}$ | 99,999 | $\frac{103,821}{143,821}$ | 235 | $\frac{122,065}{143,821}$ |
| 1,680 | 42,000,059 | $\frac{11}{21}$ | 41,999,940 | $\frac{10}{21}$ | 100,000 | $\frac{200,000}{705,599}$ | 238 | $\frac{67,438}{705,599}$ | 99,999 | $\frac{505,601}{705,601}$ | 238 | $\frac{66,962}{705,601}$ |
| 1,664 | 41,600,060 | $\frac{5}{52}$ | 41,599,939 | $\frac{47}{52}$ | 100,000 | $\frac{200,000}{692,223}$ | 240 | $\frac{266,480}{692,223}$ | 99,999 | $\frac{19,689}{27,689}$ | 240 | $\frac{10,640}{27,689}$ |
| 1,648 | 41,200,060 | $\frac{70}{103}$ | 41,199,939 | $\frac{33}{103}$ | 100,000 | $\frac{8,000}{27,159}$ | 242 | $\frac{19,522}{27,159}$ | 99,999 | $\frac{478,977}{678,977}$ | 242 | $\frac{487,566}{678,977}$ |
| 1,632 | 40,800,061 | $\frac{14}{51}$ | 40,799,938 | $\frac{37}{51}$ | 100,000 | $\frac{40,000}{133,171}$ | 245 | $\frac{13,105}{133,171}$ | 99,999 | $\frac{465,857}{665,857}$ | 245 | $\frac{65,035}{665,857}$ |
| 1,616 | 40,400,061 | $\frac{89}{101}$ | 40,399,938 | $\frac{12}{101}$ | 100,000 | $\frac{200,000}{652,863}$ | 247 | $\frac{342,839}{652,863}$ | 99,999 | $\frac{99,573}{130,573}$ | 247 | $\frac{68,469}{130,573}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | Basis | | Basis | | Perpendicularum | | Perpendicularum | | Hypotenusa | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | | 31 |
|--------------------------------|---------------------------|--------|---------------------------|-----|---------------------------|--------------------------------|---------------------------|------------|-------------------------------------|------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 249 | $\frac{639,751}{640,001}$ | 99,999 | $\frac{440,001}{640,001}$ | 250 | $\frac{250}{639,999}$ | 100,000 | $\frac{200,000}{639,999}$ | 39,999,937 | $\frac{1}{2}$ | 40,000,062 | $\frac{1}{2}$ | 1,600 |
| 251 | $\frac{162,133}{633,617}$ | 99,999 | $\frac{433,617}{633,617}$ | 251 | $\frac{32,527}{126,723}$ | 100,000 | $\frac{40,000}{126,723}$ | 39,799,937 | $\frac{37}{199}$ | 39,800,062 | $\frac{162}{199}$ | 1,592 |
| 252 | $\frac{65,844}{125,453}$ | 99,999 | $\frac{85,453}{125,453}$ | 252 | $\frac{329,724}{627,263}$ | 100,000 | $\frac{200,000}{627,263}$ | 39,599,936 | $\frac{86}{99}$ | 39,600,063 | $\frac{13}{99}$ | 1,584 |
| 253 | $\frac{100,183}{124,189}$ | 99,999 | $\frac{84,189}{124,189}$ | 253 | $\frac{501,421}{620,943}$ | 100,000 | $\frac{200,000}{620,943}$ | 39,399,936 | $\frac{108}{197}$ | 39,400,063 | $\frac{89}{197}$ | 1,576 |
| 255 | $\frac{62,465}{614,657}$ | 99,999 | $\frac{414,657}{614,657}$ | 255 | $\frac{12,595}{122,931}$ | 100,000 | $\frac{40,000}{122,931}$ | 39,199,936 | $\frac{11}{49}$ | 39,200,063 | $\frac{38}{49}$ | 1,568 |
| 256 | $\frac{249,344}{608,401}$ | 99,999 | $\frac{408,401}{608,401}$ | 256 | $\frac{249,856}{608,399}$ | 100,000 | $\frac{200,000}{608,399}$ | 38,999,935 | $\frac{35}{39}$ | 39,000,064 | $\frac{4}{39}$ | 1,560 |
| 257 | $\frac{440,511}{602,177}$ | 99,999 | $\frac{402,177}{602,177}$ | 257 | $\frac{17,641}{24,087}$ | 100,000 | $\frac{8,000}{24,087}$ | 38,799,935 | $\frac{55}{97}$ | 38,800,064 | $\frac{42}{97}$ | 1,552 |
| 259 | $\frac{7,977}{119,197}$ | 99,999 | $\frac{79,197}{119,197}$ | 259 | $\frac{40,403}{595,983}$ | 100,000 | $\frac{200,000}{595,983}$ | 38,599,935 | $\frac{45}{193}$ | 38,600,064 | $\frac{148}{193}$ | 1,544 |
| 260 | $\frac{9,820}{23,593}$ | 99,999 | $\frac{15,593}{23,593}$ | 260 | $\frac{246,020}{589,823}$ | 100,000 | $\frac{200,000}{589,823}$ | 38,399,934 | $\frac{43}{48}$ | 38,400,065 | $\frac{5}{48}$ | 1,536 |
| 261 | $\frac{455,083}{583,697}$ | 99,999 | $\frac{383,697}{583,697}$ | 261 | $\frac{91,121}{116,739}$ | 100,000 | $\frac{40,000}{116,739}$ | 38,199,934 | $\frac{106}{191}$ | 38,200,065 | $\frac{85}{191}$ | 1,528 |
| 263 | $\frac{90,937}{577,601}$ | 99,999 | $\frac{377,601}{577,601}$ | 263 | $\frac{91,463}{577,599}$ | 100,000 | $\frac{200,000}{577,599}$ | 37,999,934 | $\frac{4}{19}$ | 38,000,065 | $\frac{15}{19}$ | 1,520 |
| 264 | $\frac{314,232}{571,537}$ | 99,999 | $\frac{371,537}{571,537}$ | 264 | $\frac{62,952}{114,307}$ | 100,000 | $\frac{40,000}{114,307}$ | 37,799,933 | $\frac{163}{189}$ | 37,800,066 | $\frac{26}{189}$ | 1,512 |
| 265 | $\frac{108,235}{113,101}$ | 99,999 | $\frac{73,101}{113,101}$ | 265 | $\frac{541,705}{505,503}$ | 100,000 | $\frac{200,000}{505,503}$ | 37,599,933 | $\frac{24}{47}$ | 37,600,066 | $\frac{23}{47}$ | 1,504 |
| 267 | $\frac{42,433}{111,901}$ | 99,999 | $\frac{71,901}{111,901}$ | 267 | $\frac{212,699}{559,503}$ | 100,000 | $\frac{200,000}{559,503}$ | 37,399,933 | $\frac{29}{187}$ | 37,400,066 | $\frac{158}{187}$ | 1,496 |
| 268 | $\frac{452,084}{553,537}$ | 99,999 | $\frac{353,537}{553,537}$ | 268 | $\frac{90,524}{110,707}$ | 100,000 | $\frac{40,000}{110,707}$ | 37,199,932 | $\frac{74}{93}$ | 37,200,067 | $\frac{19}{93}$ | 1,488 |
| 270 | $\frac{147,730}{547,601}$ | 99,999 | $\frac{347,601}{547,601}$ | 270 | $\frac{148,270}{547,599}$ | 100,000 | $\frac{200,000}{547,599}$ | 36,999,932 | $\frac{16}{37}$ | 37,000,067 | $\frac{21}{37}$ | 1,480 |
| 271 | $\frac{400,113}{541,697}$ | 99,999 | $\frac{341,697}{541,697}$ | 271 | $\frac{80,131}{108,339}$ | 100,000 | $\frac{40,000}{108,339}$ | 36,799,932 | $\frac{3}{46}$ | 36,800,067 | $\frac{43}{46}$ | 1,472 |
| 273 | $\frac{4,791}{21,433}$ | 99,999 | $\frac{13,433}{21,433}$ | 273 | $\frac{120,321}{535,823}$ | 100,000 | $\frac{200,000}{535,823}$ | 36,599,931 | $\frac{127}{183}$ | 36,600,068 | $\frac{56}{183}$ | 1,464 |
| 274 | $\frac{76,822}{105,997}$ | 99,999 | $\frac{65,997}{105,997}$ | 274 | $\frac{384,658}{529,983}$ | 100,000 | $\frac{200,000}{529,983}$ | 36,399,931 | $\frac{29}{91}$ | 36,400,068 | $\frac{62}{91}$ | 1,456 |
| 276 | $\frac{127,148}{524,177}$ | 99,999 | $\frac{324,177}{524,177}$ | 276 | $\frac{5,108}{20,967}$ | 100,000 | $\frac{8,000}{20,967}$ | 36,199,930 | $\frac{170}{181}$ | 36,200,069 | $\frac{11}{181}$ | 1,448 |
| 277 | $\frac{402,923}{518,401}$ | 99,999 | $\frac{318,401}{518,401}$ | 277 | $\frac{403,477}{518,399}$ | 100,000 | $\frac{200,000}{518,399}$ | 35,999,930 | $\frac{5}{9}$ | 36,000,069 | $\frac{4}{9}$ | 1,440 |
| 279 | $\frac{168,697}{512,657}$ | 99,999 | $\frac{312,657}{512,657}$ | 279 | $\frac{33,851}{102,531}$ | 100,000 | $\frac{40,000}{102,531}$ | 35,799,930 | $\frac{39}{179}$ | 35,800,069 | $\frac{149}{179}$ | 1,432 |
| 280 | $\frac{91,080}{101,389}$ | 99,999 | $\frac{61,389}{101,389}$ | 280 | $\frac{455,960}{506,943}$ | 100,000 | $\frac{200,000}{506,943}$ | 35,599,929 | $\frac{69}{89}$ | 35,600,070 | $\frac{20}{89}$ | 1,424 |
| 282 | $\frac{48,654}{100,253}$ | 99,999 | $\frac{60,253}{100,253}$ | 282 | $\frac{243,834}{501,263}$ | 100,000 | $\frac{200,000}{501,263}$ | 35,399,929 | $\frac{67}{177}$ | 35,400,070 | $\frac{110}{177}$ | 1,416 |
| 284 | $\frac{44,772}{495,617}$ | 99,999 | $\frac{295,617}{495,617}$ | 284 | $\frac{9,068}{99,123}$ | 100,000 | $\frac{40,000}{99,123}$ | 35,199,928 | $\frac{43}{44}$ | 35,200,071 | $\frac{1}{44}$ | 1,408 |
| 285 | $\frac{349,715}{490,001}$ | 99,999 | $\frac{290,001}{490,001}$ | 285 | $\frac{350,285}{489,999}$ | 100,000 | $\frac{200,000}{489,999}$ | 34,999,928 | $\frac{4}{7}$ | 35,000,071 | $\frac{3}{7}$ | 1,400 |
| 287 | $\frac{172,321}{484,417}$ | 99,999 | $\frac{284,417}{484,417}$ | 287 | $\frac{34,579}{96,883}$ | 100,000 | $\frac{40,000}{96,883}$ | 34,799,928 | $\frac{14}{87}$ | 34,800,071 | $\frac{73}{87}$ | 1,392 |
| 289 | $\frac{1,603}{95,773}$ | 99,999 | $\frac{55,773}{95,773}$ | 289 | $\frac{8,593}{478,863}$ | 100,000 | $\frac{200,000}{478,863}$ | 34,599,927 | $\frac{129}{173}$ | 34,600,072 | $\frac{44}{173}$ | 1,384 |
| 290 | $\frac{65,990}{94,669}$ | 99,999 | $\frac{54,669}{94,669}$ | 290 | $\frac{339,539}{473,343}$ | 100,000 | $\frac{200,000}{473,343}$ | 34,399,927 | $\frac{14}{43}$ | 34,400,072 | $\frac{29}{43}$ | 1,376 |
| 292 | $\frac{185,756}{467,857}$ | 99,999 | $\frac{267,857}{467,857}$ | 292 | $\frac{37,268}{93,571}$ | 100,000 | $\frac{40,000}{93,571}$ | 34,199,926 | $\frac{154}{171}$ | 34,200,073 | $\frac{17}{171}$ | 1,368 |
| 294 | $\frac{54,106}{462,401}$ | 99,999 | $\frac{262,401}{462,401}$ | 294 | $\frac{54,694}{462,399}$ | 100,000 | $\frac{200,000}{462,399}$ | 33,999,926 | $\frac{8}{17}$ | 34,000,073 | $\frac{9}{17}$ | 1,360 |
| 295 | $\frac{391,785}{456,977}$ | 99,999 | $\frac{256,977}{456,977}$ | 295 | $\frac{15,695}{18,279}$ | 100,000 | $\frac{8,000}{18,279}$ | 33,799,926 | $\frac{6}{169}$ | 33,800,073 | $\frac{163}{169}$ | 1,352 |
| Basis 100,000 Hypotenusa | | | Perpendicularum | | | Basis 100,000 Hypotenusa | | | Perpendicularum 100,000 Basis | | | Numeri primi Baseos |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 32 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|---------------------------|-----------------|---------------------------|------------------------|---------------------------|--------------|---------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 1,344 | 33,600,074 | $\frac{17}{42}$ | 33,599,925 | $\frac{25}{42}$ | 100,000 | $\frac{200,000}{451,583}$ | 297 | $\frac{279,849}{451,583}$ | 99,999 | $\frac{50,317}{90,317}$ | 297 | $\frac{55,851}{90,317}$ |
| 1,336 | 33,400,074 | $\frac{142}{167}$ | 33,399,925 | $\frac{25}{167}$ | 100,000 | $\frac{200,000}{446,223}$ | 299 | $\frac{179,323}{446,223}$ | 99,999 | $\frac{9,849}{17,849}$ | 299 | $\frac{7,149}{17,849}$ |
| 1,328 | 33,200,075 | $\frac{25}{83}$ | 33,199,924 | $\frac{58}{83}$ | 100,000 | $\frac{40,000}{88,179}$ | 301 | $\frac{18,121}{88,179}$ | 99,999 | $\frac{249,897}{440,897}$ | 301 | $\frac{90,003}{440,897}$ |
| 1,320 | 33,000,075 | $\frac{25}{33}$ | 32,999,924 | $\frac{8}{33}$ | 100,000 | $\frac{200,000}{435,599}$ | 303 | $\frac{13,503}{435,599}$ | 99,999 | $\frac{235,601}{435,601}$ | 303 | $\frac{12,897}{435,601}$ |
| 1,312 | 32,800,076 | $\frac{9}{41}$ | 32,799,923 | $\frac{32}{41}$ | 100,000 | $\frac{40,000}{86,067}$ | 304 | $\frac{75,632}{86,067}$ | 99,999 | $\frac{230,337}{430,337}$ | 304 | $\frac{377,552}{430,337}$ |
| 1,304 | 32,600,076 | $\frac{112}{163}$ | 32,599,923 | $\frac{51}{163}$ | 100,000 | $\frac{200,000}{425,103}$ | 306 | $\frac{318,482}{425,103}$ | 99,999 | $\frac{45,021}{85,021}$ | 306 | $\frac{63,574}{85,021}$ |
| 1,296 | 32,400,077 | $\frac{13}{81}$ | 32,399,922 | $\frac{68}{81}$ | 100,000 | $\frac{200,000}{419,903}$ | 308 | $\frac{269,876}{419,903}$ | 99,999 | $\frac{43,981}{83,981}$ | 308 | $\frac{53,852}{83,981}$ |
| 1,288 | 32,200,077 | $\frac{103}{161}$ | 32,199,922 | $\frac{58}{161}$ | 100,000 | $\frac{40,000}{82,947}$ | 310 | $\frac{46,430}{82,947}$ | 99,999 | $\frac{214,737}{414,737}$ | 310 | $\frac{231,530}{414,737}$ |
| 1,280 | 32,000,078 | $\frac{1}{8}$ | 31,999,921 | $\frac{7}{8}$ | 100,000 | $\frac{200,000}{409,599}$ | 312 | $\frac{205,112}{409,599}$ | 99,999 | $\frac{209,601}{409,601}$ | 312 | $\frac{204,488}{409,601}$ |
| 1,272 | 31,800,078 | $\frac{98}{159}$ | 31,799,921 | $\frac{61}{159}$ | 100,000 | $\frac{40,000}{80,899}$ | 314 | $\frac{37,714}{80,899}$ | 99,999 | $\frac{204,497}{404,497}$ | 314 | $\frac{187,942}{404,497}$ |
| 1,264 | 31,600,079 | $\frac{9}{79}$ | 31,599,920 | $\frac{70}{79}$ | 100,000 | $\frac{200,000}{399,423}$ | 316 | $\frac{182,332}{399,423}$ | 99,999 | $\frac{7,977}{15,977}$ | 316 | $\frac{7,268}{15,977}$ |
| 1,256 | 31,400,079 | $\frac{97}{157}$ | 31,399,920 | $\frac{60}{157}$ | 100,000 | $\frac{200,000}{394,383}$ | 318 | $\frac{186,206}{394,383}$ | 99,999 | $\frac{38,877}{78,877}$ | 318 | $\frac{37,114}{78,877}$ |
| 1,248 | 31,200,080 | $\frac{5}{39}$ | 31,199,919 | $\frac{34}{39}$ | 100,000 | $\frac{320}{623}$ | 320 | $\frac{320}{623}$ | 99,999 | $\frac{189,377}{389,377}$ | 320 | $\frac{199,360}{389,377}$ |
| 1,240 | 31,000,080 | $\frac{20}{31}$ | 30,999,919 | $\frac{11}{31}$ | 100,000 | $\frac{200,000}{384,399}$ | 322 | $\frac{223,522}{384,399}$ | 99,999 | $\frac{184,401}{384,401}$ | 322 | $\frac{222,878}{384,401}$ |
| 1,232 | 30,800,081 | $\frac{13}{77}$ | 30,799,918 | $\frac{64}{77}$ | 100,000 | $\frac{40,000}{75,891}$ | 324 | $\frac{51,316}{75,891}$ | 99,999 | $\frac{179,457}{379,457}$ | 324 | $\frac{255,932}{379,457}$ |
| 1,224 | 30,600,081 | $\frac{107}{153}$ | 30,599,918 | $\frac{46}{153}$ | 100,000 | $\frac{200,000}{374,543}$ | 326 | $\frac{298,982}{374,543}$ | 99,999 | $\frac{34,909}{74,909}$ | 326 | $\frac{59,666}{74,909}$ |
| 1,216 | 30,400,082 | $\frac{9}{38}$ | 30,399,917 | $\frac{29}{38}$ | 100,000 | $\frac{200,000}{369,663}$ | 328 | $\frac{350,536}{369,663}$ | 99,999 | $\frac{33,933}{73,933}$ | 328 | $\frac{69,976}{73,933}$ |
| 1,208 | 30,200,082 | $\frac{118}{151}$ | 30,199,917 | $\frac{33}{151}$ | 100,000 | $\frac{40,000}{72,963}$ | 331 | $\frac{9,247}{72,963}$ | 99,999 | $\frac{164,817}{364,817}$ | 331 | $\frac{45,573}{364,817}$ |
| 1,200 | 30,000,083 | $\frac{1}{3}$ | 29,999,916 | $\frac{2}{3}$ | 100,000 | $\frac{200,000}{359,999}$ | 333 | $\frac{120,333}{359,999}$ | 99,999 | $\frac{160,001}{360,001}$ | 333 | $\frac{119,667}{360,001}$ |
| 1,192 | 29,800,083 | $\frac{133}{149}$ | 29,799,916 | $\frac{16}{149}$ | 100,000 | $\frac{40,000}{71,043}$ | 335 | $\frac{40,595}{71,043}$ | 99,999 | $\frac{155,217}{355,217}$ | 335 | $\frac{202,305}{355,217}$ |
| 1,184 | 29,600,084 | $\frac{17}{37}$ | 29,599,915 | $\frac{20}{37}$ | 100,000 | $\frac{200,000}{350,463}$ | 337 | $\frac{293,969}{350,463}$ | 99,999 | $\frac{39,093}{70,093}$ | 337 | $\frac{58,659}{70,093}$ |
| 1,176 | 29,400,085 | $\frac{5}{147}$ | 29,399,914 | $\frac{142}{147}$ | 100,000 | $\frac{200,000}{345,743}$ | 340 | $\frac{47,380}{345,743}$ | 99,999 | $\frac{29,149}{69,149}$ | 340 | $\frac{9,340}{69,149}$ |
| 1,168 | 29,200,085 | $\frac{45}{73}$ | 29,199,914 | $\frac{28}{73}$ | 100,000 | $\frac{40,000}{68,211}$ | 342 | $\frac{31,838}{68,211}$ | 99,999 | $\frac{141,057}{341,057}$ | 342 | $\frac{158,506}{341,057}$ |
| 1,160 | 29,000,086 | $\frac{6}{29}$ | 28,999,913 | $\frac{23}{29}$ | 100,000 | $\frac{200,000}{336,399}$ | 344 | $\frac{278,744}{336,399}$ | 99,999 | $\frac{136,401}{336,401}$ | 344 | $\frac{278,056}{336,401}$ |
| 1,152 | 28,800,086 | $\frac{29}{36}$ | 28,799,913 | $\frac{7}{36}$ | 100,000 | $\frac{8,000}{13,271}$ | 347 | $\frac{2,063}{13,271}$ | 99,999 | $\frac{131,777}{331,777}$ | 347 | $\frac{73,381}{331,777}$ |
| 1,144 | 28,600,087 | $\frac{59}{143}$ | 28,599,912 | $\frac{84}{143}$ | 100,000 | $\frac{200,000}{327,183}$ | 349 | $\frac{213,133}{327,183}$ | 99,999 | $\frac{25,437}{65,437}$ | 349 | $\frac{42,487}{65,437}$ |
| 1,136 | 28,400,088 | $\frac{2}{71}$ | 28,399,911 | $\frac{69}{71}$ | 100,000 | $\frac{200,000}{322,623}$ | 352 | $\frac{36,704}{322,623}$ | 99,999 | $\frac{981}{2,581}$ | 352 | $\frac{288}{2,581}$ |
| 1,128 | 28,200,088 | $\frac{92}{141}$ | 28,199,911 | $\frac{49}{141}$ | 100,000 | $\frac{40,000}{63,619}$ | 354 | $\frac{38,874}{63,619}$ | 99,999 | $\frac{118,097}{318,097}$ | 354 | $\frac{193,662}{318,097}$ |
| 1,120 | 28,000,089 | $\frac{2}{7}$ | 27,999,910 | $\frac{5}{7}$ | 100,000 | $\frac{200,000}{313,599}$ | 357 | $\frac{45,157}{313,599}$ | 99,999 | $\frac{113,601}{313,601}$ | 357 | $\frac{44,443}{313,601}$ |
| 1,112 | 27,800,089 | $\frac{129}{139}$ | 27,799,910 | $\frac{10}{139}$ | 100,000 | $\frac{40,000}{61,827}$ | 359 | $\frac{44,107}{61,827}$ | 99,999 | $\frac{109,137}{309,137}$ | 359 | $\frac{219,817}{309,137}$ |
| 1,104 | 27,600,090 | $\frac{40}{69}$ | 27,599,909 | $\frac{29}{69}$ | 100,000 | $\frac{200,000}{304,703}$ | 362 | $\frac{97,514}{304,703}$ | 99,999 | $\frac{29,941}{60,941}$ | 362 | $\frac{19,358}{60,941}$ |
| 1,096 | 27,400,091 | $\frac{33}{137}$ | 27,399,908 | $\frac{104}{137}$ | 100,000 | $\frac{200,000}{300,303}$ | 364 | $\frac{289,708}{300,303}$ | 99,999 | $\frac{20,061}{60,061}$ | 364 | $\frac{57,796}{60,061}$ |
| 1,088 | 27,200,091 | $\frac{31}{34}$ | 27,199,908 | $\frac{3}{34}$ | 100,000 | $\frac{40,000}{59,187}$ | 367 | $\frac{38,371}{59,187}$ | 99,999 | $\frac{95,937}{295,937}$ | 367 | $\frac{191,121}{295,937}$ |
| 1,080 | 27,000,092 | $\frac{16}{27}$ | 26,999,907 | $\frac{11}{27}$ | 100,000 | $\frac{200,000}{291,599}$ | 370 | $\frac{108,370}{291,599}$ | 99,999 | $\frac{91,601}{291,601}$ | 370 | $\frac{107,630}{291,601}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | | | Basis | | | | Perpendicularum | | | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonium triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | | 33 |
|---------------------|---------------------------|------------------------|---------------------------|--------------|---------------------------|-------------------|---------------------------|------------------------|-------------------|-------------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 373 | $\frac{38,219}{287,297}$ | 99,999 | $\frac{87,297}{287,297}$ | 373 | $\frac{7,793}{57,459}$ | 100,000 | $\frac{40,000}{57,459}$ | 26,799,906 | $\frac{48}{67}$ | 26,800,093 | $\frac{19}{67}$ | 1,072 |
| 375 | $\frac{10,625}{11,321}$ | 99,999 | $\frac{3,321}{11,321}$ | 375 | $\frac{266,375}{283,023}$ | 100,000 | $\frac{200,000}{283,023}$ | 26,599,906 | $\frac{2}{133}$ | 26,600,093 | $\frac{131}{133}$ | 1,064 |
| 378 | $\frac{43,854}{55,757}$ | 99,999 | $\frac{15,757}{55,757}$ | 378 | $\frac{220,026}{278,783}$ | 100,000 | $\frac{200,000}{278,783}$ | 26,399,905 | $\frac{10}{33}$ | 26,400,094 | $\frac{23}{33}$ | 1,056 |
| 381 | $\frac{186,163}{274,577}$ | 99,999 | $\frac{74,577}{274,577}$ | 381 | $\frac{7,477}{10,983}$ | 100,000 | $\frac{8,000}{10,983}$ | 26,199,904 | $\frac{76}{131}$ | 26,200,095 | $\frac{55}{131}$ | 1,048 |
| 384 | $\frac{166,016}{270,401}$ | 99,999 | $\frac{70,401}{270,401}$ | 384 | $\frac{166,784}{270,399}$ | 100,000 | $\frac{200,000}{270,399}$ | 25,999,903 | $\frac{11}{13}$ | 26,000,096 | $\frac{2}{13}$ | 1,040 |
| 387 | $\frac{158,541}{266,257}$ | 99,999 | $\frac{66,257}{266,257}$ | 387 | $\frac{31,863}{53,251}$ | 100,000 | $\frac{40,000}{53,251}$ | 25,799,903 | $\frac{13}{129}$ | 25,800,096 | $\frac{116}{129}$ | 1,032 |
| 390 | $\frac{32,690}{52,429}$ | 99,999 | $\frac{12,429}{52,429}$ | 390 | $\frac{164,230}{262,143}$ | 100,000 | $\frac{200,000}{262,143}$ | 25,599,902 | $\frac{11}{32}$ | 25,600,097 | $\frac{21}{32}$ | 1,024 |
| 393 | $\frac{36,091}{51,613}$ | 99,999 | $\frac{11,613}{51,613}$ | 393 | $\frac{181,241}{258,063}$ | 100,000 | $\frac{200,000}{258,063}$ | 25,399,901 | $\frac{73}{127}$ | 25,400,098 | $\frac{54}{127}$ | 1,016 |
| 396 | $\frac{209,268}{254,017}$ | 99,999 | $\frac{54,017}{254,017}$ | 396 | $\frac{42,012}{50,803}$ | 100,000 | $\frac{40,000}{50,803}$ | 25,199,900 | $\frac{50}{63}$ | 25,200,099 | $\frac{13}{63}$ | 1,008 |
| 399 | $\frac{249,601}{250,001}$ | 99,999 | $\frac{50,001}{250,001}$ | 400 | $\frac{400}{249,999}$ | 100,000 | $\frac{200,000}{249,999}$ | 24,999,900 | | 25,000,100 | | 1,000 |
| 403 | $\frac{55,149}{246,017}$ | 99,999 | $\frac{46,017}{246,017}$ | 403 | $\frac{11,191}{49,203}$ | 100,000 | $\frac{40,000}{49,203}$ | 24,799,899 | $\frac{6}{31}$ | 24,800,100 | $\frac{25}{31}$ | 992 |
| 406 | $\frac{24,322}{48,413}$ | 99,999 | $\frac{8,413}{48,413}$ | 406 | $\frac{122,422}{242,063}$ | 100,000 | $\frac{200,000}{242,063}$ | 24,599,898 | $\frac{46}{123}$ | 24,600,101 | $\frac{77}{123}$ | 984 |
| 409 | $\frac{39,739}{47,629}$ | 99,999 | $\frac{7,629}{47,629}$ | 409 | $\frac{199,513}{238,143}$ | 100,000 | $\frac{200,000}{238,143}$ | 24,399,897 | $\frac{33}{61}$ | 24,400,102 | $\frac{28}{61}$ | 976 |
| 413 | $\frac{51,859}{234,257}$ | 99,999 | $\frac{34,257}{234,257}$ | 413 | $\frac{10,537}{46,851}$ | 100,000 | $\frac{40,000}{46,851}$ | 24,199,896 | $\frac{84}{121}$ | 24,200,103 | $\frac{37}{121}$ | 968 |
| 416 | $\frac{153,184}{230,401}$ | 99,999 | $\frac{30,401}{230,401}$ | 416 | $\frac{154,016}{230,399}$ | 100,000 | $\frac{200,000}{230,399}$ | 23,999,895 | $\frac{5}{6}$ | 24,000,104 | $\frac{1}{6}$ | 960 |
| 420 | $\frac{37,660}{226,577}$ | 99,999 | $\frac{26,577}{226,577}$ | 420 | $\frac{1,540}{9,063}$ | 100,000 | $\frac{8,000}{9,063}$ | 23,799,894 | $\frac{114}{119}$ | 23,800,105 | $\frac{5}{119}$ | 952 |
| 423 | $\frac{32,389}{44,557}$ | 99,999 | $\frac{4,557}{44,557}$ | 423 | $\frac{162,791}{222,783}$ | 100,000 | $\frac{200,000}{222,783}$ | 23,599,894 | $\frac{4}{59}$ | 23,600,105 | $\frac{55}{59}$ | 944 |
| 427 | $\frac{3,053}{8,761}$ | 99,999 | $\frac{761}{8,761}$ | 427 | $\frac{77,179}{219,023}$ | 100,000 | $\frac{200,000}{219,023}$ | 23,399,893 | $\frac{19}{117}$ | 23,400,106 | $\frac{98}{117}$ | 936 |
| 431 | $\frac{6,993}{215,297}$ | 99,999 | $\frac{15,297}{215,297}$ | 431 | $\frac{1,571}{43,059}$ | 100,000 | $\frac{40,000}{43,059}$ | 23,199,892 | $\frac{7}{29}$ | 23,200,107 | $\frac{22}{29}$ | 928 |
| 434 | $\frac{165,166}{211,601}$ | 99,999 | $\frac{11,601}{211,601}$ | 434 | $\frac{166,034}{211,599}$ | 100,000 | $\frac{200,000}{211,599}$ | 22,999,891 | $\frac{7}{23}$ | 23,000,108 | $\frac{16}{23}$ | 920 |
| 438 | $\frac{123,594}{207,937}$ | 99,999 | $\frac{7,937}{207,937}$ | 438 | $\frac{24,894}{41,587}$ | 100,000 | $\frac{40,000}{41,587}$ | 22,799,890 | $\frac{20}{57}$ | 22,800,109 | $\frac{37}{57}$ | 912 |
| 442 | $\frac{19,438}{40,861}$ | 99,999 | $\frac{861}{40,861}$ | 442 | $\frac{98,074}{204,303}$ | 100,000 | $\frac{200,000}{204,303}$ | 22,599,889 | $\frac{43}{113}$ | 22,600,110 | $\frac{70}{113}$ | 904 |
| 446 | $\frac{17,114}{40,141}$ | 99,999 | $\frac{141}{40,141}$ | 446 | $\frac{86,462}{200,703}$ | 100,000 | $\frac{200,000}{200,703}$ | 22,399,888 | $\frac{11}{28}$ | 22,400,111 | $\frac{17}{28}$ | 896 |
| 450 | $\frac{88,350}{197,137}$ | 99,998 | $\frac{194,274}{197,137}$ | 450 | $\frac{17,850}{39,427}$ | 100,001 | $\frac{573}{39,427}$ | 22,199,887 | $\frac{43}{111}$ | 22,200,112 | $\frac{68}{111}$ | 888 |
| 454 | $\frac{105,146}{193,601}$ | 99,998 | $\frac{187,202}{193,601}$ | 454 | $\frac{106,054}{193,599}$ | 100,001 | $\frac{6,401}{193,599}$ | 21,999,886 | $\frac{4}{11}$ | 22,000,113 | $\frac{7}{11}$ | 880 |
| 458 | $\frac{135,574}{190,097}$ | 99,998 | $\frac{180,194}{190,097}$ | 458 | $\frac{27,298}{38,019}$ | 100,001 | $\frac{1,981}{38,019}$ | 21,799,885 | $\frac{35}{109}$ | 21,800,114 | $\frac{74}{109}$ | 872 |
| 462 | $\frac{1,434}{1,493}$ | 99,998 | $\frac{1,386}{1,493}$ | 462 | $\frac{180,174}{186,623}$ | 100,001 | $\frac{13,377}{186,623}$ | 21,599,884 | $\frac{7}{27}$ | 21,600,115 | $\frac{20}{27}$ | 864 |
| 467 | $\frac{10,521}{36,637}$ | 99,998 | $\frac{33,274}{36,637}$ | 467 | $\frac{53,539}{183,183}$ | 100,001 | $\frac{16,817}{183,183}$ | 21,399,883 | $\frac{19}{107}$ | 21,400,116 | $\frac{88}{107}$ | 856 |
| 471 | $\frac{125,033}{179,777}$ | 99,998 | $\frac{159,554}{179,777}$ | 471 | $\frac{5,039}{7,191}$ | 100,001 | $\frac{809}{7,191}$ | 21,199,882 | $\frac{4}{53}$ | 21,200,117 | $\frac{49}{53}$ | 848 |
| 476 | $\frac{33,124}{176,401}$ | 99,998 | $\frac{152,802}{176,401}$ | 476 | $\frac{34,076}{176,399}$ | 100,001 | $\frac{23,601}{176,399}$ | 20,999,880 | $\frac{20}{21}$ | 21,000,119 | $\frac{1}{21}$ | 840 |
| 480 | $\frac{132,640}{173,057}$ | 99,998 | $\frac{146,114}{173,057}$ | 480 | $\frac{26,720}{34,611}$ | 100,001 | $\frac{5,389}{34,611}$ | 20,799,879 | $\frac{21}{26}$ | 20,800,120 | $\frac{5}{26}$ | 832 |
| 485 | $\frac{14,735}{33,949}$ | 99,998 | $\frac{17,898}{33,949}$ | 485 | $\frac{74,645}{169,743}$ | 100,001 | $\frac{30,257}{169,743}$ | 20,599,878 | $\frac{66}{103}$ | 20,600,121 | $\frac{37}{103}$ | 824 |
| 490 | $\frac{6,430}{33,293}$ | 99,998 | $\frac{26,586}{33,293}$ | 490 | $\frac{33,130}{166,463}$ | 100,001 | $\frac{33,537}{166,463}$ | 20,399,877 | $\frac{23}{51}$ | 20,400,122 | $\frac{28}{51}$ | 816 |
| 495 | $\frac{7,585}{163,217}$ | 99,998 | $\frac{126,434}{163,217}$ | 495 | $\frac{1,715}{32,643}$ | 100,001 | $\frac{7,357}{32,643}$ | 20,199,876 | $\frac{24}{101}$ | 20,200,123 | $\frac{77}{101}$ | 808 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | Numeri primi Baseos |
| 100,000 | | Hypotenusa | | 100,000 | | Perpendicularum | | 100,000 | | Basis | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 34 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|------------------------|------------|-------------------|-------------------|--------------------------|--------------|---------------------------|-----------|---------------------------|------------------------|---------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 800 | 20,000,125 | | 19,999,875 | | 100,001 | $\frac{40,001}{159,999}$ | 500 | $\frac{500}{159,999}$ | 99,998 | $\frac{120,002}{160,001}$ | 499 | $\frac{159,501}{160,001}$ |
| 796 | 19,900,125 | $\frac{125}{199}$ | 19,899,874 | $\frac{74}{199}$ | 100,001 | $\frac{41,597}{158,403}$ | 502 | $\frac{81,694}{158,403}$ | 99,998 | $\frac{23,362}{31,681}$ | 502 | $\frac{16,138}{31,681}$ |
| 792 | 19,800,126 | $\frac{26}{99}$ | 19,799,873 | $\frac{73}{99}$ | 100,001 | $\frac{8,637}{31,363}$ | 505 | $\frac{1,685}{31,363}$ | 99,998 | $\frac{113,634}{156,817}$ | 505 | $\frac{7,415}{156,817}$ |
| 788 | 19,700,126 | $\frac{178}{197}$ | 19,699,873 | $\frac{19}{197}$ | 100,001 | $\frac{8,953}{31,047}$ | 507 | $\frac{19,171}{31,047}$ | 99,998 | $\frac{110,474}{155,237}$ | 507 | $\frac{94,841}{155,237}$ |
| 784 | 19,600,127 | $\frac{27}{49}$ | 19,599,872 | $\frac{22}{49}$ | 100,001 | $\frac{46,337}{153,663}$ | 510 | $\frac{31,870}{153,663}$ | 99,998 | $\frac{21,466}{30,733}$ | 510 | $\frac{6,170}{30,733}$ |
| 780 | 19,500,128 | $\frac{8}{39}$ | 19,499,871 | $\frac{31}{39}$ | 100,001 | $\frac{47,901}{152,099}$ | 512 | $\frac{125,312}{152,099}$ | 99,998 | $\frac{104,202}{152,101}$ | 512 | $\frac{124,288}{152,101}$ |
| 776 | 19,400,128 | $\frac{84}{97}$ | 19,399,871 | $\frac{13}{97}$ | 100,001 | $\frac{49,457}{150,543}$ | 515 | $\frac{70,355}{150,543}$ | 99,998 | $\frac{20,218}{30,109}$ | 515 | $\frac{13,865}{30,109}$ |
| 772 | 19,300,129 | $\frac{103}{193}$ | 19,299,870 | $\frac{90}{193}$ | 100,001 | $\frac{10,201}{29,799}$ | 518 | $\frac{4,118}{29,799}$ | 99,998 | $\frac{97,994}{148,997}$ | 518 | $\frac{19,554}{148,997}$ |
| 768 | 19,200,130 | $\frac{5}{24}$ | 19,199,869 | $\frac{19}{24}$ | 100,001 | $\frac{10,509}{29,491}$ | 520 | $\frac{24,680}{29,491}$ | 99,998 | $\frac{94,914}{147,457}$ | 520 | $\frac{122,360}{147,457}$ |
| 764 | 19,100,130 | $\frac{170}{191}$ | 19,099,869 | $\frac{21}{191}$ | 100,001 | $\frac{54,077}{145,923}$ | 523 | $\frac{82,271}{145,923}$ | 99,998 | $\frac{3,674}{5,837}$ | 523 | $\frac{3,240}{5,837}$ |
| 760 | 19,000,131 | $\frac{11}{19}$ | 18,999,868 | $\frac{8}{19}$ | 100,001 | $\frac{55,601}{144,399}$ | 526 | $\frac{46,126}{144,399}$ | 99,998 | $\frac{88,802}{144,401}$ | 526 | $\frac{45,074}{144,401}$ |
| 756 | 18,900,132 | $\frac{52}{189}$ | 18,899,867 | $\frac{137}{189}$ | 100,001 | $\frac{57,117}{142,883}$ | 529 | $\frac{14,893}{142,883}$ | 99,998 | $\frac{17,154}{28,577}$ | 529 | $\frac{2,767}{28,577}$ |
| 752 | 18,800,132 | $\frac{46}{47}$ | 18,799,867 | $\frac{1}{47}$ | 100,001 | $\frac{469}{1,131}$ | 531 | $\frac{1,039}{1,131}$ | 99,998 | $\frac{82,754}{141,377}$ | 531 | $\frac{128,813}{141,377}$ |
| 748 | 18,700,133 | $\frac{129}{187}$ | 18,699,866 | $\frac{58}{187}$ | 100,001 | $\frac{481}{1,119}$ | 534 | $\frac{854}{1,119}$ | 99,998 | $\frac{79,754}{139,877}$ | 534 | $\frac{105,682}{139,877}$ |
| 744 | 18,600,134 | $\frac{38}{93}$ | 18,599,865 | $\frac{55}{93}$ | 100,001 | $\frac{61,617}{138,383}$ | 537 | $\frac{88,329}{138,383}$ | 99,998 | $\frac{15,354}{27,677}$ | 537 | $\frac{17,451}{27,677}$ |
| 740 | 18,500,135 | $\frac{5}{37}$ | 18,499,864 | $\frac{32}{37}$ | 100,001 | $\frac{63,101}{136,899}$ | 540 | $\frac{74,540}{136,899}$ | 99,998 | $\frac{73,802}{136,901}$ | 540 | $\frac{73,460}{136,901}$ |
| 736 | 18,400,135 | $\frac{20}{23}$ | 18,399,864 | $\frac{3}{23}$ | 100,001 | $\frac{64,577}{135,423}$ | 543 | $\frac{65,311}{135,423}$ | 99,998 | $\frac{2,834}{5,417}$ | 543 | $\frac{2,569}{5,417}$ |
| 732 | 18,300,136 | $\frac{112}{183}$ | 18,299,863 | $\frac{71}{183}$ | 100,001 | $\frac{13,209}{26,791}$ | 546 | $\frac{12,114}{26,791}$ | 99,998 | $\frac{67,914}{133,957}$ | 546 | $\frac{59,478}{133,957}$ |
| 728 | 18,200,137 | $\frac{33}{91}$ | 18,199,862 | $\frac{58}{91}$ | 100,001 | $\frac{13,501}{26,499}$ | 549 | $\frac{12,049}{26,499}$ | 99,998 | $\frac{64,994}{132,497}$ | 549 | $\frac{59,147}{132,497}$ |
| 724 | 18,100,138 | $\frac{22}{181}$ | 18,099,861 | $\frac{159}{181}$ | 100,001 | $\frac{68,957}{131,043}$ | 552 | $\frac{64,264}{131,043}$ | 99,998 | $\frac{12,418}{26,209}$ | 552 | $\frac{12,632}{26,209}$ |
| 720 | 18,000,138 | $\frac{8}{9}$ | 17,999,861 | $\frac{1}{9}$ | 100,001 | $\frac{70,401}{129,599}$ | 555 | $\frac{72,555}{129,599}$ | 99,998 | $\frac{59,202}{129,601}$ | 555 | $\frac{71,445}{129,601}$ |
| 716 | 17,900,139 | $\frac{119}{179}$ | 17,899,860 | $\frac{60}{179}$ | 100,001 | $\frac{71,837}{128,163}$ | 558 | $\frac{85,046}{128,163}$ | 99,998 | $\frac{11,266}{25,633}$ | 558 | $\frac{16,786}{25,633}$ |
| 712 | 17,800,140 | $\frac{40}{89}$ | 17,799,859 | $\frac{49}{89}$ | 100,001 | $\frac{14,653}{25,347}$ | 561 | $\frac{20,333}{25,347}$ | 99,998 | $\frac{53,474}{126,737}$ | 561 | $\frac{100,543}{126,737}$ |
| 708 | 17,700,141 | $\frac{43}{177}$ | 17,699,858 | $\frac{134}{177}$ | 100,001 | $\frac{14,937}{25,063}$ | 564 | $\frac{24,468}{25,063}$ | 99,998 | $\frac{59,634}{125,317}$ | 564 | $\frac{121,212}{125,317}$ |
| 704 | 17,600,142 | $\frac{1}{22}$ | 17,599,857 | $\frac{21}{22}$ | 100,001 | $\frac{76,097}{123,903}$ | 568 | $\frac{23,096}{123,903}$ | 99,998 | $\frac{9,562}{24,781}$ | 568 | $\frac{4,392}{24,781}$ |
| 700 | 17,500,142 | $\frac{6}{7}$ | 17,499,857 | $\frac{1}{7}$ | 100,001 | $\frac{77,501}{122,499}$ | 571 | $\frac{53,071}{122,499}$ | 99,998 | $\frac{45,002}{122,501}$ | 571 | $\frac{51,929}{122,501}$ |
| 696 | 17,400,143 | $\frac{59}{87}$ | 17,399,856 | $\frac{28}{87}$ | 100,001 | $\frac{78,897}{121,103}$ | 574 | $\frac{86,878}{121,103}$ | 99,998 | $\frac{8,442}{24,221}$ | 574 | $\frac{17,146}{24,221}$ |
| 692 | 17,300,144 | $\frac{88}{173}$ | 17,299,855 | $\frac{85}{173}$ | 100,001 | $\frac{16,057}{23,943}$ | 578 | $\frac{946}{23,943}$ | 99,998 | $\frac{39,434}{119,717}$ | 578 | $\frac{3,574}{119,717}$ |
| 688 | 17,200,145 | $\frac{15}{43}$ | 17,199,854 | $\frac{28}{43}$ | 100,001 | $\frac{16,333}{23,667}$ | 581 | $\frac{9,473}{23,667}$ | 99,998 | $\frac{36,674}{118,337}$ | 581 | $\frac{46,203}{118,337}$ |
| 684 | 17,100,146 | $\frac{34}{171}$ | 17,099,853 | $\frac{137}{171}$ | 100,001 | $\frac{83,037}{116,963}$ | 584 | $\frac{93,608}{116,963}$ | 99,998 | $\frac{6,786}{23,393}$ | 584 | $\frac{18,488}{23,393}$ |
| 680 | 17,000,147 | $\frac{1}{17}$ | 16,999,852 | $\frac{16}{17}$ | 100,001 | $\frac{84,401}{115,599}$ | 588 | $\frac{27,788}{115,599}$ | 99,998 | $\frac{31,202}{115,601}$ | 588 | $\frac{26,612}{115,601}$ |
| 676 | 16,900,147 | $\frac{157}{169}$ | 16,899,852 | $\frac{12}{169}$ | 100,001 | $\frac{85,757}{114,243}$ | 591 | $\frac{82,387}{114,243}$ | 99,998 | $\frac{5,698}{22,849}$ | 591 | $\frac{16,241}{22,849}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Hypotenusa</i> | 100,000 | <i>Basis</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Perpendicularum</i> | 100,000 |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | | 35 |
|--------------------------------|---------------------------|--------|--------------------------|-----|--------------------------|-------------------------------------|--------------------------|------------|-------------------|------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 595 | $\frac{26,285}{112,897}$ | 99,998 | $\frac{25,794}{112,897}$ | 595 | $\frac{5,495}{22,579}$ | 100,001 | $\frac{17,421}{22,579}$ | 16,799,851 | $\frac{4}{21}$ | 16,800,148 | $\frac{17}{21}$ | 672 |
| 598 | $\frac{88,914}{111,557}$ | 99,998 | $\frac{23,114}{111,557}$ | 598 | $\frac{18,022}{22,311}$ | 100,001 | $\frac{17,689}{22,311}$ | 16,699,850 | $\frac{50}{167}$ | 16,700,149 | $\frac{117}{167}$ | 668 |
| 602 | $\frac{1,782}{4,409}$ | 99,998 | $\frac{818}{4,409}$ | 602 | $\frac{45,754}{110,223}$ | 100,001 | $\frac{89,777}{110,223}$ | 16,599,849 | $\frac{33}{83}$ | 16,600,150 | $\frac{50}{83}$ | 664 |
| 606 | $\frac{5,994}{108,901}$ | 99,998 | $\frac{17,802}{108,901}$ | 606 | $\frac{7,206}{108,899}$ | 100,001 | $\frac{91,101}{108,899}$ | 16,499,848 | $\frac{16}{33}$ | 16,500,151 | $\frac{17}{33}$ | 660 |
| 609 | $\frac{16,147}{21,517}$ | 99,998 | $\frac{3,034}{21,517}$ | 609 | $\frac{81,953}{107,583}$ | 100,001 | $\frac{92,417}{107,583}$ | 16,399,847 | $\frac{23}{41}$ | 16,400,152 | $\frac{18}{41}$ | 656 |
| 613 | $\frac{52,199}{106,277}$ | 99,998 | $\frac{12,554}{106,277}$ | 613 | $\frac{2,137}{4,251}$ | 100,001 | $\frac{3,749}{4,251}$ | 16,299,846 | $\frac{102}{163}$ | 16,300,153 | $\frac{61}{163}$ | 652 |
| 617 | $\frac{29,191}{104,977}$ | 99,998 | $\frac{9,954}{104,977}$ | 617 | $\frac{1,217}{4,199}$ | 100,001 | $\frac{3,801}{4,199}$ | 16,199,845 | $\frac{55}{81}$ | 16,200,154 | $\frac{26}{81}$ | 648 |
| 621 | $\frac{2,323}{20,737}$ | 99,998 | $\frac{1,474}{20,737}$ | 621 | $\frac{12,857}{103,683}$ | 100,001 | $\frac{96,317}{103,683}$ | 16,099,844 | $\frac{116}{161}$ | 16,100,155 | $\frac{45}{161}$ | 644 |
| 624 | $\frac{101,776}{102,401}$ | 99,998 | $\frac{4,802}{102,401}$ | 625 | $\frac{625}{102,399}$ | 100,001 | $\frac{97,601}{102,399}$ | 15,999,843 | $\frac{3}{4}$ | 16,000,156 | $\frac{1}{4}$ | 640 |
| 628 | $\frac{748}{809}$ | 99,998 | $\frac{18}{809}$ | 628 | $\frac{94,756}{101,123}$ | 100,001 | $\frac{98,877}{101,123}$ | 15,899,842 | $\frac{122}{159}$ | 15,900,157 | $\frac{37}{159}$ | 636 |
| 632 | $\frac{90,376}{99,857}$ | 99,997 | $\frac{99,571}{99,857}$ | 632 | $\frac{18,328}{19,971}$ | 100,002 | $\frac{58}{19,971}$ | 15,799,841 | $\frac{61}{79}$ | 15,800,158 | $\frac{18}{79}$ | 632 |
| 636 | $\frac{92,308}{98,597}$ | 99,997 | $\frac{95,791}{98,597}$ | 636 | $\frac{18,716}{19,719}$ | 100,002 | $\frac{562}{19,719}$ | 15,699,840 | $\frac{120}{157}$ | 15,700,159 | $\frac{37}{157}$ | 628 |
| 641 | $\frac{371}{19,469}$ | 99,997 | $\frac{18,407}{19,469}$ | 641 | $\frac{3,137}{97,343}$ | 100,002 | $\frac{5,314}{97,343}$ | 15,599,839 | $\frac{29}{39}$ | 15,600,160 | $\frac{10}{39}$ | 624 |
| 645 | $\frac{14,855}{96,101}$ | 99,997 | $\frac{88,303}{96,101}$ | 645 | $\frac{16,145}{96,099}$ | 100,002 | $\frac{7,802}{96,099}$ | 15,499,838 | $\frac{22}{31}$ | 15,500,161 | $\frac{9}{31}$ | 620 |
| 649 | $\frac{6,523}{18,973}$ | 99,997 | $\frac{16,919}{18,973}$ | 649 | $\frac{33,913}{94,863}$ | 100,002 | $\frac{10,274}{94,863}$ | 15,399,837 | $\frac{51}{77}$ | 15,400,162 | $\frac{26}{77}$ | 616 |
| 653 | $\frac{55,039}{93,637}$ | 99,997 | $\frac{80,911}{93,637}$ | 653 | $\frac{11,269}{18,727}$ | 100,002 | $\frac{2,546}{18,727}$ | 15,299,836 | $\frac{92}{153}$ | 15,300,163 | $\frac{61}{153}$ | 612 |
| 657 | $\frac{82,031}{92,417}$ | 99,997 | $\frac{77,251}{92,417}$ | 657 | $\frac{16,669}{18,483}$ | 100,002 | $\frac{3,034}{18,483}$ | 15,199,835 | $\frac{19}{19}$ | 15,200,164 | $\frac{9}{19}$ | 608 |
| 662 | $\frac{4,458}{18,241}$ | 99,997 | $\frac{14,723}{18,241}$ | 662 | $\frac{23,614}{91,203}$ | 100,002 | $\frac{17,594}{91,203}$ | 15,099,834 | $\frac{66}{151}$ | 15,100,165 | $\frac{85}{151}$ | 604 |
| 666 | $\frac{59,334}{90,001}$ | 99,997 | $\frac{70,003}{90,001}$ | 666 | $\frac{60,666}{89,999}$ | 100,002 | $\frac{20,002}{89,999}$ | 14,999,833 | $\frac{1}{3}$ | 15,000,166 | $\frac{2}{3}$ | 600 |
| 671 | $\frac{2,369}{17,761}$ | 99,997 | $\frac{13,283}{17,761}$ | 671 | $\frac{13,187}{88,803}$ | 100,002 | $\frac{22,394}{88,803}$ | 14,899,832 | $\frac{32}{149}$ | 14,900,167 | $\frac{117}{149}$ | 596 |
| 675 | $\frac{58,525}{87,617}$ | 99,997 | $\frac{62,851}{87,617}$ | 675 | $\frac{11,975}{17,523}$ | 100,002 | $\frac{4,954}{17,523}$ | 14,799,831 | $\frac{3}{37}$ | 14,800,168 | $\frac{34}{37}$ | 592 |
| 680 | $\frac{22,840}{86,437}$ | 99,997 | $\frac{59,311}{86,437}$ | 680 | $\frac{4,840}{17,287}$ | 100,002 | $\frac{5,426}{17,287}$ | 14,699,829 | $\frac{137}{147}$ | 14,700,170 | $\frac{10}{147}$ | 588 |
| 684 | $\frac{15,748}{17,053}$ | 99,997 | $\frac{11,159}{17,053}$ | 684 | $\frac{80,108}{85,263}$ | 100,002 | $\frac{29,474}{85,263}$ | 14,599,828 | $\frac{56}{73}$ | 14,600,171 | $\frac{17}{73}$ | 584 |
| 689 | $\frac{54,411}{84,101}$ | 99,997 | $\frac{52,303}{84,101}$ | 689 | $\frac{55,789}{84,099}$ | 100,002 | $\frac{31,802}{84,099}$ | 14,499,827 | $\frac{17}{29}$ | 14,500,172 | $\frac{12}{29}$ | 580 |
| 694 | $\frac{7,234}{16,589}$ | 99,997 | $\frac{9,767}{16,589}$ | 694 | $\frac{37,558}{82,943}$ | 100,002 | $\frac{34,114}{82,943}$ | 14,399,826 | $\frac{7}{18}$ | 14,400,173 | $\frac{11}{18}$ | 576 |
| 699 | $\frac{23,897}{81,797}$ | 99,997 | $\frac{45,391}{81,797}$ | 699 | $\frac{5,059}{16,359}$ | 100,002 | $\frac{7,282}{16,359}$ | 14,299,825 | $\frac{25}{143}$ | 14,300,174 | $\frac{118}{143}$ | 572 |
| 704 | $\frac{17,472}{80,657}$ | 99,997 | $\frac{41,971}{80,657}$ | 704 | $\frac{3,776}{16,131}$ | 100,002 | $\frac{7,738}{16,131}$ | 14,199,823 | $\frac{67}{71}$ | 14,200,176 | $\frac{4}{71}$ | 568 |
| 709 | $\frac{671}{3,181}$ | 99,997 | $\frac{1,543}{3,181}$ | 709 | $\frac{18,193}{79,523}$ | 100,002 | $\frac{40,954}{79,523}$ | 14,099,822 | $\frac{98}{141}$ | 14,100,177 | $\frac{43}{141}$ | 564 |
| 714 | $\frac{21,686}{78,401}$ | 99,997 | $\frac{35,203}{78,401}$ | 714 | $\frac{23,114}{78,399}$ | 100,002 | $\frac{43,202}{78,399}$ | 13,999,821 | $\frac{3}{7}$ | 14,000,178 | $\frac{4}{7}$ | 560 |
| 719 | $\frac{6,417}{15,457}$ | 99,997 | $\frac{6,371}{15,457}$ | 719 | $\frac{33,523}{77,283}$ | 100,002 | $\frac{45,434}{77,283}$ | 13,899,820 | $\frac{20}{139}$ | 13,900,179 | $\frac{119}{139}$ | 556 |
| 724 | $\frac{47,852}{76,177}$ | 99,997 | $\frac{28,531}{76,177}$ | 724 | $\frac{1,972}{3,047}$ | 100,002 | $\frac{1,906}{3,047}$ | 13,799,818 | $\frac{58}{69}$ | 13,800,181 | $\frac{11}{69}$ | 552 |
| 729 | $\frac{68,867}{75,077}$ | 99,997 | $\frac{25,231}{75,077}$ | 729 | $\frac{2,813}{3,003}$ | 100,002 | $\frac{1,994}{3,003}$ | 13,699,817 | $\frac{71}{137}$ | 13,700,182 | $\frac{66}{137}$ | 548 |
| 735 | $\frac{4,205}{14,797}$ | 99,997 | $\frac{4,391}{14,797}$ | 735 | $\frac{22,495}{73,983}$ | 100,002 | $\frac{52,034}{73,983}$ | 13,599,816 | $\frac{3}{17}$ | 13,600,183 | $\frac{14}{17}$ | 544 |
| 740 | $\frac{53,260}{72,901}$ | 99,997 | $\frac{18,703}{72,901}$ | 740 | $\frac{54,740}{72,899}$ | 100,002 | $\frac{54,202}{72,899}$ | 13,499,814 | $\frac{22}{27}$ | 13,500,185 | $\frac{5}{27}$ | 540 |
| Basis 100,000 Hypotenusa | | | Perpendicularum | | | Basis 100,000 Perpendicularum | | | Hypotenusa | | | Numeri primi Baseos |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 36 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|-------------------------|-----------------|-------------------------|------------------------|-------------------------|--------------|-------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 536 | 13,400,186 | $\frac{38}{67}$ | 13,399,813 | $\frac{29}{67}$ | 100,002 | $\frac{56,354}{71,823}$ | 746 | $\frac{20,042}{71,823}$ | 99,997 | $\frac{619}{2,873}$ | 746 | $\frac{742}{2,873}$ |
| 532 | 13,300,187 | $\frac{129}{133}$ | 13,299,812 | $\frac{4}{133}$ | 100,002 | $\frac{11,698}{14,151}$ | 751 | $\frac{12,599}{14,151}$ | 99,997 | $\frac{12,271}{70,757}$ | 751 | $\frac{61,493}{70,757}$ |
| 528 | 13,200,189 | $\frac{13}{33}$ | 13,199,810 | $\frac{20}{33}$ | 100,002 | $\frac{12,122}{13,939}$ | 757 | $\frac{8,177}{13,939}$ | 99,997 | $\frac{9,091}{69,697}$ | 757 | $\frac{39,371}{69,697}$ |
| 524 | 13,100,190 | $\frac{110}{131}$ | 13,099,809 | $\frac{21}{131}$ | 100,002 | $\frac{62,714}{68,643}$ | 763 | $\frac{25,391}{68,643}$ | 99,997 | $\frac{1,187}{13,729}$ | 763 | $\frac{4,773}{13,729}$ |
| 520 | 13,000,192 | $\frac{4}{13}$ | 12,999,807 | $\frac{9}{13}$ | 100,002 | $\frac{64,802}{67,599}$ | 769 | $\frac{16,369}{67,599}$ | 99,997 | $\frac{2,803}{67,601}$ | 769 | $\frac{14,831}{67,601}$ |
| 516 | 12,900,193 | $\frac{103}{129}$ | 12,899,806 | $\frac{26}{129}$ | 100,003 | $\frac{311}{66,563}$ | 775 | $\frac{13,675}{66,563}$ | 99,996 | $\frac{13,252}{13,313}$ | 775 | $\frac{2,425}{13,313}$ |
| 512 | 12,800,195 | $\frac{5}{16}$ | 12,799,804 | $\frac{11}{16}$ | 100,003 | $\frac{679}{13,107}$ | 781 | $\frac{3,433}{13,107}$ | 99,996 | $\frac{62,148}{65,537}$ | 781 | $\frac{15,603}{65,537}$ |
| 508 | 12,700,196 | $\frac{108}{127}$ | 12,699,803 | $\frac{19}{127}$ | 100,003 | $\frac{1,291}{12,903}$ | 787 | $\frac{5,339}{12,903}$ | 99,996 | $\frac{58,068}{64,517}$ | 787 | $\frac{25,121}{64,517}$ |
| 504 | 12,600,198 | $\frac{26}{63}$ | 12,599,801 | $\frac{37}{63}$ | 100,003 | $\frac{9,491}{63,503}$ | 793 | $\frac{42,121}{63,503}$ | 99,996 | $\frac{10,804}{12,701}$ | 793 | $\frac{8,107}{12,701}$ |
| 500 | 12,500,200 | | 12,499,800 | | 100,003 | $\frac{12,503}{62,499}$ | 800 | $\frac{800}{62,499}$ | 99,996 | $\frac{50,004}{62,501}$ | 799 | $\frac{61,701}{62,501}$ |
| 496 | 12,400,201 | $\frac{19}{31}$ | 12,399,798 | $\frac{12}{31}$ | 100,003 | $\frac{15,491}{61,503}$ | 806 | $\frac{28,582}{61,503}$ | 99,996 | $\frac{9,204}{12,301}$ | 806 | $\frac{5,394}{12,301}$ |
| 492 | 12,300,203 | $\frac{31}{123}$ | 12,299,796 | $\frac{92}{123}$ | 100,003 | $\frac{3,601}{12,103}$ | 813 | $\frac{261}{12,103}$ | 99,996 | $\frac{42,068}{60,517}$ | 812 | $\frac{60,196}{60,517}$ |
| 488 | 12,200,204 | $\frac{56}{61}$ | 12,199,795 | $\frac{5}{61}$ | 100,003 | $\frac{4,279}{11,907}$ | 819 | $\frac{8,167}{11,907}$ | 99,996 | $\frac{38,148}{59,537}$ | 819 | $\frac{39,197}{59,537}$ |
| 484 | 12,100,206 | $\frac{74}{121}$ | 12,099,793 | $\frac{47}{121}$ | 100,003 | $\frac{24,311}{58,563}$ | 826 | $\frac{26,962}{58,563}$ | 99,996 | $\frac{6,852}{11,713}$ | 826 | $\frac{5,062}{11,713}$ |
| 480 | 12,000,208 | $\frac{1}{3}$ | 11,999,791 | $\frac{2}{3}$ | 100,003 | $\frac{27,293}{57,599}$ | 833 | $\frac{20,033}{57,599}$ | 99,996 | $\frac{30,404}{57,601}$ | 833 | $\frac{18,367}{57,601}$ |
| 476 | 11,900,210 | $\frac{10}{119}$ | 11,899,789 | $\frac{109}{119}$ | 100,003 | $\frac{30,071}{56,643}$ | 840 | $\frac{19,880}{56,643}$ | 99,996 | $\frac{5,316}{11,329}$ | 840 | $\frac{3,640}{11,329}$ |
| 472 | 11,800,211 | $\frac{51}{59}$ | 11,799,788 | $\frac{8}{59}$ | 100,003 | $\frac{6,583}{11,139}$ | 847 | $\frac{5,267}{11,139}$ | 99,996 | $\frac{22,788}{55,697}$ | 847 | $\frac{24,641}{55,697}$ |
| 468 | 11,700,213 | $\frac{79}{117}$ | 11,699,786 | $\frac{38}{117}$ | 100,003 | $\frac{7,147}{10,951}$ | 854 | $\frac{7,846}{10,951}$ | 99,996 | $\frac{19,028}{54,757}$ | 854 | $\frac{37,522}{54,757}$ |
| 464 | 11,600,215 | $\frac{15}{29}$ | 11,599,784 | $\frac{14}{29}$ | 100,003 | $\frac{38,531}{53,823}$ | 862 | $\frac{4,574}{53,823}$ | 99,996 | $\frac{612}{2,153}$ | 862 | $\frac{114}{2,153}$ |
| 460 | 11,500,217 | $\frac{9}{23}$ | 11,499,782 | $\frac{14}{23}$ | 100,003 | $\frac{41,393}{52,899}$ | 869 | $\frac{30,769}{52,899}$ | 99,996 | $\frac{11,604}{52,901}$ | 869 | $\frac{29,031}{52,901}$ |
| 456 | 11,400,219 | $\frac{17}{57}$ | 11,399,780 | $\frac{40}{57}$ | 100,003 | $\frac{44,051}{51,983}$ | 877 | $\frac{10,909}{51,983}$ | 99,996 | $\frac{1,588}{10,397}$ | 877 | $\frac{1,831}{10,397}$ |
| 452 | 11,300,221 | $\frac{27}{113}$ | 11,299,778 | $\frac{86}{113}$ | 100,003 | $\frac{1,871}{2,043}$ | 884 | $\frac{1,988}{2,043}$ | 99,996 | $\frac{4,308}{5,077}$ | 884 | $\frac{47,932}{47,932}$ |
| 448 | 11,200,223 | $\frac{3}{14}$ | 11,199,776 | $\frac{11}{14}$ | 100,003 | $\frac{1,979}{2,007}$ | 892 | $\frac{1,756}{2,007}$ | 99,996 | $\frac{708}{50,177}$ | 892 | $\frac{42,116}{50,177}$ |
| 444 | 11,100,225 | $\frac{25}{111}$ | 11,099,774 | $\frac{86}{111}$ | 100,004 | $\frac{2,868}{49,283}$ | 900 | $\frac{45,300}{49,283}$ | 99,995 | $\frac{9,285}{9,857}$ | 900 | $\frac{8,700}{9,857}$ |
| 440 | 11,000,227 | $\frac{3}{11}$ | 10,999,772 | $\frac{8}{11}$ | 100,004 | $\frac{6,404}{48,399}$ | 909 | $\frac{5,399}{48,399}$ | 99,995 | $\frac{42,005}{48,401}$ | 909 | $\frac{3,491}{48,401}$ |
| 436 | 10,900,229 | $\frac{39}{109}$ | 10,899,770 | $\frac{70}{109}$ | 100,004 | $\frac{9,998}{47,523}$ | 917 | $\frac{21,499}{47,523}$ | 99,995 | $\frac{1,505}{1,901}$ | 917 | $\frac{783}{1,901}$ |
| 432 | 10,800,231 | $\frac{13}{27}$ | 10,799,768 | $\frac{14}{27}$ | 100,004 | $\frac{2,676}{9,331}$ | 925 | $\frac{8,825}{9,331}$ | 99,995 | $\frac{33,285}{46,657}$ | 925 | $\frac{42,275}{46,657}$ |
| 428 | 10,700,233 | $\frac{69}{107}$ | 10,699,766 | $\frac{38}{107}$ | 100,004 | $\frac{3,364}{9,159}$ | 934 | $\frac{5,494}{9,159}$ | 99,995 | $\frac{28,985}{45,797}$ | 934 | $\frac{25,602}{45,797}$ |
| 424 | 10,600,235 | $\frac{45}{53}$ | 10,599,764 | $\frac{8}{53}$ | 100,004 | $\frac{20,228}{44,943}$ | 943 | $\frac{18,751}{44,943}$ | 99,995 | $\frac{4,945}{8,989}$ | 943 | $\frac{3,373}{8,989}$ |
| 420 | 10,500,238 | $\frac{2}{21}$ | 10,499,761 | $\frac{19}{21}$ | 100,004 | $\frac{23,604}{44,099}$ | 952 | $\frac{17,752}{44,099}$ | 99,995 | $\frac{20,505}{44,101}$ | 952 | $\frac{15,848}{44,101}$ |
| 416 | 10,400,240 | $\frac{5}{13}$ | 10,399,759 | $\frac{8}{13}$ | 100,004 | $\frac{26,948}{43,263}$ | 961 | $\frac{24,257}{43,263}$ | 99,995 | $\frac{3,265}{8,653}$ | 961 | $\frac{4,467}{8,653}$ |
| 412 | 10,300,242 | $\frac{74}{103}$ | 10,299,757 | $\frac{29}{103}$ | 100,004 | $\frac{6,052}{8,487}$ | 970 | $\frac{7,610}{8,487}$ | 99,995 | $\frac{12,185}{42,437}$ | 970 | $\frac{36,110}{42,437}$ |
| 408 | 10,200,245 | $\frac{5}{51}$ | 10,199,754 | $\frac{46}{51}$ | 100,004 | $\frac{6,708}{8,323}$ | 980 | $\frac{3,460}{8,323}$ | 99,995 | $\frac{8,085}{41,617}$ | 980 | $\frac{15,340}{41,617}$ |
| 404 | 10,100,247 | $\frac{53}{101}$ | 10,099,752 | $\frac{48}{101}$ | 100,004 | $\frac{36,788}{40,803}$ | 990 | $\frac{5,039}{40,803}$ | 99,995 | $\frac{805}{8,161}$ | 990 | $\frac{610}{8,161}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | | | Basis | | | | Perpendicularum | | | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 37 | |
|---------------------|-------------------------|--------|-------------------------|-----------------|-------------------------|---------|-------------------------|------------------------|-------------------|------------|-------------------|---------------------|
| SERIES I. | | | | SERIES II. | | | | SERIES III. | | | | |
| 999 | $\frac{39,001}{40,001}$ | 99,995 | $\frac{5}{40,001}$ | 1,000 | $\frac{1,000}{39,999}$ | 100,005 | $\frac{5}{39,999}$ | 9,999,750 | | 10,000,250 | | 400 |
| 1,004 | $\frac{19,796}{19,801}$ | 99,994 | $\frac{18,806}{19,801}$ | 1,005 | $\frac{5}{99}$ | 100,005 | $\frac{5}{99}$ | 9,949,748 | $\frac{148}{199}$ | 9,950,251 | $\frac{51}{199}$ | 398 |
| 1,010 | $\frac{590}{7,841}$ | 99,994 | $\frac{7,046}{7,841}$ | 1,010 | $\frac{4,970}{39,203}$ | 100,005 | $\frac{3,985}{39,203}$ | 9,899,747 | $\frac{47}{99}$ | 9,900,252 | $\frac{52}{99}$ | 396 |
| 1,015 | $\frac{785}{3,881}$ | 99,994 | $\frac{3,286}{3,881}$ | 1,015 | $\frac{1,235}{4,851}$ | 100,005 | $\frac{745}{4,851}$ | 9,849,746 | $\frac{38}{197}$ | 9,850,253 | $\frac{159}{197}$ | 394 |
| 1,020 | $\frac{14,660}{38,417}$ | 99,994 | $\frac{30,502}{38,417}$ | 1,020 | $\frac{3,340}{7,683}$ | 100,005 | $\frac{1,585}{7,683}$ | 9,799,744 | $\frac{44}{49}$ | 9,800,255 | $\frac{5}{49}$ | 392 |
| 1,025 | $\frac{11,675}{19,013}$ | 99,994 | $\frac{14,078}{19,013}$ | 1,025 | $\frac{3,175}{4,753}$ | 100,005 | $\frac{1,235}{4,753}$ | 9,749,743 | $\frac{23}{39}$ | 9,750,256 | $\frac{16}{39}$ | 390 |
| 1,030 | $\frac{33,890}{37,637}$ | 99,994 | $\frac{25,822}{37,637}$ | 1,030 | $\frac{7,190}{7,527}$ | 100,005 | $\frac{2,365}{7,527}$ | 9,699,742 | $\frac{26}{97}$ | 9,700,257 | $\frac{71}{97}$ | 388 |
| 1,036 | $\frac{36}{149}$ | 99,994 | $\frac{94}{149}$ | 1,036 | $\frac{173}{582}$ | 100,005 | $\frac{215}{582}$ | 9,649,740 | $\frac{180}{193}$ | 9,650,259 | $\frac{13}{193}$ | 386 |
| 1,041 | $\frac{4,707}{7,373}$ | 99,994 | $\frac{4,238}{7,373}$ | 1,041 | $\frac{25,617}{36,863}$ | 100,005 | $\frac{15,685}{36,863}$ | 9,599,739 | $\frac{7}{12}$ | 9,600,260 | $\frac{5}{12}$ | 384 |
| 1,047 | $\frac{1,673}{18,241}$ | 99,994 | $\frac{9,446}{18,241}$ | 1,047 | $\frac{17}{114}$ | 100,005 | $\frac{55}{114}$ | 9,549,738 | $\frac{42}{191}$ | 9,550,261 | $\frac{140}{191}$ | 382 |
| 1,052 | $\frac{21,748}{36,101}$ | 99,994 | $\frac{16,606}{36,101}$ | 1,052 | $\frac{23,852}{36,099}$ | 100,005 | $\frac{19,505}{36,099}$ | 9,499,736 | $\frac{16}{19}$ | 9,500,263 | $\frac{3}{19}$ | 380 |
| 1,058 | $\frac{3,062}{17,861}$ | 99,994 | $\frac{7,166}{17,861}$ | 1,058 | $\frac{206}{893}$ | 100,005 | $\frac{535}{893}$ | 9,449,735 | $\frac{85}{189}$ | 9,450,264 | $\frac{104}{189}$ | 378 |
| 1,063 | $\frac{5,653}{7,069}$ | 99,994 | $\frac{2,414}{7,069}$ | 1,063 | $\frac{30,391}{35,343}$ | 100,005 | $\frac{23,285}{35,343}$ | 9,399,734 | $\frac{2}{47}$ | 9,400,265 | $\frac{45}{47}$ | 376 |
| 1,069 | $\frac{1,707}{3,497}$ | 99,994 | $\frac{982}{3,497}$ | 1,069 | $\frac{2,401}{4,371}$ | 100,005 | $\frac{3,145}{4,371}$ | 9,349,732 | $\frac{116}{187}$ | 9,350,267 | $\frac{71}{187}$ | 374 |
| 1,075 | $\frac{8,225}{34,597}$ | 99,994 | $\frac{7,582}{34,597}$ | 1,075 | $\frac{2,075}{6,919}$ | 100,005 | $\frac{5,405}{6,919}$ | 9,299,731 | $\frac{17}{93}$ | 9,300,268 | $\frac{76}{93}$ | 372 |
| 1,081 | $\frac{847}{17,113}$ | 99,994 | $\frac{2,678}{17,113}$ | 1,081 | $\frac{241}{2,139}$ | 100,005 | $\frac{1,805}{2,139}$ | 9,249,729 | $\frac{27}{37}$ | 9,250,270 | $\frac{10}{37}$ | 370 |
| 1,086 | $\frac{31,298}{33,857}$ | 99,994 | $\frac{3,142}{33,857}$ | 1,086 | $\frac{6,694}{6,771}$ | 100,005 | $\frac{6,145}{6,771}$ | 9,199,728 | $\frac{6}{23}$ | 9,200,271 | $\frac{17}{23}$ | 368 |
| 1,092 | $\frac{2,892}{3,349}$ | 99,994 | $\frac{94}{3,349}$ | 1,092 | $\frac{1,944}{2,093}$ | 100,005 | $\frac{2,035}{2,093}$ | 9,149,726 | $\frac{142}{183}$ | 9,150,273 | $\frac{41}{183}$ | 366 |
| 1,098 | $\frac{46}{53}$ | 99,993 | $\frac{51}{53}$ | 1,098 | $\frac{30,946}{33,123}$ | 100,006 | $\frac{1,262}{33,123}$ | 9,099,725 | $\frac{25}{91}$ | 9,100,274 | $\frac{66}{91}$ | 364 |
| 1,104 | $\frac{15,376}{16,381}$ | 99,993 | $\frac{14,667}{16,381}$ | 1,105 | $\frac{5}{819}$ | 100,006 | $\frac{86}{819}$ | 9,049,723 | $\frac{137}{181}$ | 9,050,276 | $\frac{44}{181}$ | 362 |
| 1,111 | $\frac{2,489}{32,401}$ | 99,993 | $\frac{26,807}{32,401}$ | 1,111 | $\frac{4,711}{32,399}$ | 100,006 | $\frac{5,606}{32,399}$ | 8,999,722 | $\frac{2}{9}$ | 9,000,277 | $\frac{7}{9}$ | 360 |
| 1,117 | $\frac{4,543}{16,021}$ | 99,993 | $\frac{12,147}{16,021}$ | 1,117 | $\frac{283}{801}$ | 100,006 | $\frac{194}{801}$ | 8,949,720 | $\frac{120}{179}$ | 8,950,279 | $\frac{59}{179}$ | 358 |
| 1,123 | $\frac{3,549}{6,337}$ | 99,993 | $\frac{4,359}{6,337}$ | 1,123 | $\frac{19,991}{31,683}$ | 100,006 | $\frac{9,902}{31,683}$ | 8,899,719 | $\frac{9}{89}$ | 8,900,280 | $\frac{80}{89}$ | 356 |
| 1,129 | $\frac{2,843}{3,133}$ | 99,993 | $\frac{1,931}{3,133}$ | 1,129 | $\frac{959}{979}$ | 100,006 | $\frac{376}{979}$ | 8,849,717 | $\frac{91}{177}$ | 8,850,282 | $\frac{86}{177}$ | 354 |
| 1,136 | $\frac{10,128}{30,977}$ | 99,993 | $\frac{16,839}{30,977}$ | 1,136 | $\frac{496}{1,239}$ | 100,006 | $\frac{566}{1,239}$ | 8,799,715 | $\frac{10}{11}$ | 8,800,284 | $\frac{1}{11}$ | 352 |
| 1,142 | $\frac{12,554}{15,313}$ | 99,993 | $\frac{7,191}{15,313}$ | 1,142 | $\frac{856}{957}$ | 100,006 | $\frac{508}{957}$ | 8,749,714 | $\frac{2}{7}$ | 8,750,285 | $\frac{5}{7}$ | 350 |
| 1,149 | $\frac{11,727}{30,277}$ | 99,993 | $\frac{11,939}{30,277}$ | 1,149 | $\frac{561}{1,211}$ | 100,006 | $\frac{734}{1,211}$ | 8,699,712 | $\frac{56}{87}$ | 8,700,287 | $\frac{31}{87}$ | 348 |
| 1,156 | $\frac{92}{2,993}$ | 99,993 | $\frac{951}{2,993}$ | 1,156 | $\frac{404}{3,741}$ | 100,006 | $\frac{2,554}{3,741}$ | 8,649,710 | $\frac{170}{173}$ | 8,650,289 | $\frac{3}{173}$ | 346 |
| 1,162 | $\frac{4,446}{5,917}$ | 99,993 | $\frac{1,419}{5,917}$ | 1,162 | $\frac{24,554}{29,583}$ | 100,006 | $\frac{22,502}{29,583}$ | 8,599,709 | $\frac{13}{43}$ | 8,600,290 | $\frac{30}{43}$ | 344 |
| 1,169 | $\frac{8,051}{14,621}$ | 99,993 | $\frac{2,347}{14,621}$ | 1,169 | $\frac{461}{731}$ | 100,006 | $\frac{614}{731}$ | 8,549,707 | $\frac{103}{171}$ | 8,550,292 | $\frac{68}{171}$ | 342 |
| 1,176 | $\frac{12,424}{28,901}$ | 99,993 | $\frac{2,307}{28,901}$ | 1,176 | $\frac{14,776}{28,899}$ | 100,006 | $\frac{26,606}{28,899}$ | 8,499,705 | $\frac{15}{17}$ | 8,500,294 | $\frac{2}{17}$ | 340 |
| 1,183 | $\frac{5,577}{14,281}$ | 99,992 | $\frac{14,248}{14,281}$ | 1,183 | $\frac{169}{357}$ | 100,007 | $\frac{1}{357}$ | 8,449,704 | $\frac{24}{169}$ | 8,450,295 | $\frac{145}{169}$ | 338 |
| <i>Basis</i> | | | <i>Perpendicularum</i> | <i>Basis</i> | | | <i>Hypotenusa</i> | <i>Perpendicularum</i> | | | <i>Hypotenusa</i> | Numeri primi Baseos |
| 100,000 | | | | 100,000 | | | | 100,000 | | | | |
| Hypotenusa | | | | Perpendicularum | | | | Basis | | | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 38 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|------------------------|-----------|-------------------|-------------------|-------------------------|--------------|-------------------------|------------------------|-------------------------|--------------|-------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 336 | 8,400,297 | $\frac{13}{21}$ | 8,399,702 | $\frac{8}{21}$ | 100,007 | $\frac{2,439}{28,223}$ | 1,190 | $\frac{14,630}{28,223}$ | 99,992 | $\frac{1,032}{1,129}$ | 1,190 | $\frac{490}{1,129}$ |
| 334 | 8,350,299 | $\frac{67}{167}$ | 8,349,700 | $\frac{100}{167}$ | 100,007 | $\frac{299}{1,743}$ | 1,197 | $\frac{1,129}{1,743}$ | 99,992 | $\frac{2,312}{2,789}$ | 1,197 | $\frac{1,567}{2,789}$ |
| 332 | 8,300,301 | $\frac{17}{83}$ | 8,299,698 | $\frac{66}{83}$ | 100,007 | $\frac{1,423}{5,511}$ | 1,204 | $\frac{4,756}{5,511}$ | 99,992 | $\frac{20,456}{27,557}$ | 1,204 | $\frac{21,372}{27,557}$ |
| 330 | 8,250,303 | $\frac{1}{33}$ | 8,249,696 | $\frac{32}{33}$ | 100,007 | $\frac{1,179}{3,403}$ | 1,212 | $\frac{564}{3,403}$ | 99,992 | $\frac{8,904}{13,613}$ | 1,212 | $\frac{1,044}{13,613}$ |
| 328 | 8,200,304 | $\frac{36}{41}$ | 8,199,695 | $\frac{5}{41}$ | 100,007 | $\frac{2,347}{5,379}$ | 1,219 | $\frac{2,999}{5,379}$ | 99,992 | $\frac{15,176}{26,897}$ | 1,219 | $\frac{12,557}{26,897}$ |
| 326 | 8,150,306 | $\frac{122}{163}$ | 8,149,693 | $\frac{41}{163}$ | 100,007 | $\frac{1,753}{3,321}$ | 1,227 | $\frac{133}{3,321}$ | 99,992 | $\frac{1,256}{2,657}$ | 1,226 | $\frac{2,518}{2,657}$ |
| 324 | 8,100,308 | $\frac{52}{81}$ | 8,099,691 | $\frac{29}{81}$ | 100,007 | $\frac{16,299}{26,243}$ | 1,234 | $\frac{16,138}{26,243}$ | 99,992 | $\frac{1,992}{5,249}$ | 1,234 | $\frac{2,734}{5,249}$ |
| 322 | 8,050,310 | $\frac{90}{161}$ | 8,049,689 | $\frac{71}{161}$ | 100,007 | $\frac{58}{81}$ | 1,242 | $\frac{23}{81}$ | 99,992 | $\frac{3,688}{12,961}$ | 1,242 | $\frac{2,438}{12,961}$ |
| 320 | 8,000,312 | $\frac{1}{2}$ | 7,999,687 | $\frac{1}{2}$ | 100,007 | $\frac{20,807}{25,599}$ | 1,250 | $\frac{1,250}{25,599}$ | 99,992 | $\frac{4,808}{25,601}$ | 1,249 | $\frac{24,351}{25,601}$ |
| 318 | 7,950,314 | $\frac{74}{159}$ | 7,949,685 | $\frac{85}{159}$ | 100,007 | $\frac{72}{79}$ | 1,257 | $\frac{72}{79}$ | 99,992 | $\frac{1,128}{12,641}$ | 1,257 | $\frac{10,263}{12,641}$ |
| 316 | 7,900,316 | $\frac{36}{79}$ | 7,899,683 | $\frac{43}{79}$ | 100,008 | $\frac{296}{24,963}$ | 1,265 | $\frac{21,805}{24,963}$ | 99,991 | $\frac{4,937}{4,993}$ | 1,265 | $\frac{3,855}{4,993}$ |
| 314 | 7,850,318 | $\frac{74}{157}$ | 7,849,681 | $\frac{83}{157}$ | 100,008 | $\frac{352}{3,081}$ | 1,273 | $\frac{2,887}{3,081}$ | 99,991 | $\frac{437}{493}$ | 1,273 | $\frac{411}{493}$ |
| 312 | 7,800,320 | $\frac{20}{39}$ | 7,799,679 | $\frac{19}{39}$ | 100,008 | $\frac{1,064}{4,867}$ | 1,282 | $\frac{506}{4,867}$ | 99,991 | $\frac{19,033}{24,337}$ | 1,281 | $\frac{24,303}{24,337}$ |
| 310 | 7,750,322 | $\frac{18}{31}$ | 7,749,677 | $\frac{13}{31}$ | 100,008 | $\frac{976}{3,003}$ | 1,290 | $\frac{1,130}{3,003}$ | 99,991 | $\frac{8,117}{12,013}$ | 1,290 | $\frac{3,230}{12,013}$ |
| 308 | 7,700,324 | $\frac{52}{77}$ | 7,699,675 | $\frac{25}{77}$ | 100,008 | $\frac{2,056}{4,743}$ | 1,298 | $\frac{3,586}{4,743}$ | 99,991 | $\frac{13,453}{23,717}$ | 1,298 | $\frac{15,334}{23,717}$ |
| 306 | 7,650,326 | $\frac{122}{153}$ | 7,649,673 | $\frac{31}{153}$ | 100,008 | $\frac{796}{1,463}$ | 1,307 | $\frac{359}{1,463}$ | 99,991 | $\frac{1,069}{2,341}$ | 1,307 | $\frac{313}{2,341}$ |
| 304 | 7,600,328 | $\frac{18}{19}$ | 7,599,671 | $\frac{1}{19}$ | 100,008 | $\frac{15,176}{23,103}$ | 1,315 | $\frac{19,555}{23,103}$ | 99,991 | $\frac{1,589}{4,621}$ | 1,315 | $\frac{3,385}{4,621}$ |
| 302 | 7,550,331 | $\frac{19}{151}$ | 7,549,668 | $\frac{132}{151}$ | 100,008 | $\frac{44}{57}$ | 1,324 | $\frac{32}{57}$ | 99,991 | $\frac{2,609}{11,401}$ | 1,324 | $\frac{5,076}{11,401}$ |
| 300 | 7,500,333 | $\frac{1}{3}$ | 7,499,666 | $\frac{2}{3}$ | 100,008 | $\frac{20,008}{22,499}$ | 1,333 | $\frac{8,833}{22,499}$ | 99,991 | $\frac{2,509}{22,501}$ | 1,333 | $\frac{6,167}{22,501}$ |
| 298 | 7,450,335 | $\frac{85}{149}$ | 7,449,664 | $\frac{64}{149}$ | 100,009 | $\frac{1}{111}$ | 1,342 | $\frac{38}{111}$ | 99,990 | $\frac{11,010}{11,101}$ | 1,342 | $\frac{2,458}{11,101}$ |
| 296 | 7,400,337 | $\frac{31}{37}$ | 7,399,662 | $\frac{6}{37}$ | 100,009 | $\frac{2,873}{21,903}$ | 1,351 | $\frac{9,047}{21,903}$ | 99,990 | $\frac{3,810}{4,381}$ | 1,351 | $\frac{1,269}{4,381}$ |
| 294 | 7,350,340 | $\frac{20}{147}$ | 7,349,659 | $\frac{127}{147}$ | 100,009 | $\frac{691}{2,701}$ | 1,360 | $\frac{1,640}{2,701}$ | 99,990 | $\frac{1,610}{2,161}$ | 1,360 | $\frac{1,040}{2,161}$ |
| 292 | 7,300,342 | $\frac{34}{73}$ | 7,299,657 | $\frac{39}{73}$ | 100,009 | $\frac{1,633}{4,263}$ | 1,369 | $\frac{3,953}{4,263}$ | 99,990 | $\frac{13,170}{21,317}$ | 1,369 | $\frac{17,027}{21,317}$ |
| 290 | 7,250,344 | $\frac{24}{29}$ | 7,249,655 | $\frac{5}{29}$ | 100,009 | $\frac{337}{657}$ | 1,379 | $\frac{247}{657}$ | 99,990 | $\frac{5,130}{10,513}$ | 1,379 | $\frac{2,573}{10,513}$ |
| 288 | 7,200,347 | $\frac{2}{9}$ | 7,199,652 | $\frac{7}{9}$ | 100,009 | $\frac{2,677}{4,147}$ | 1,388 | $\frac{3,964}{4,147}$ | 99,990 | $\frac{7,370}{20,737}$ | 1,388 | $\frac{17,044}{20,737}$ |
| 286 | 7,150,349 | $\frac{93}{143}$ | 7,149,650 | $\frac{50}{143}$ | 100,009 | $\frac{499}{639}$ | 1,398 | $\frac{428}{639}$ | 99,990 | $\frac{90}{409}$ | 1,398 | $\frac{218}{409}$ |
| 284 | 7,100,352 | $\frac{8}{71}$ | 7,099,647 | $\frac{63}{71}$ | 100,009 | $\frac{18,533}{20,163}$ | 1,408 | $\frac{10,496}{20,163}$ | 99,990 | $\frac{330}{4,033}$ | 1,408 | $\frac{1,536}{4,033}$ |
| 282 | 7,050,354 | $\frac{86}{141}$ | 7,049,645 | $\frac{55}{141}$ | 100,010 | $\frac{30}{497}$ | 1,418 | $\frac{254}{497}$ | 99,989 | $\frac{9,351}{9,941}$ | 1,418 | $\frac{3,662}{9,941}$ |
| 280 | 7,000,357 | $\frac{1}{7}$ | 6,999,642 | $\frac{6}{7}$ | 100,010 | $\frac{4,010}{19,599}$ | 1,428 | $\frac{12,628}{19,599}$ | 99,989 | $\frac{15,611}{19,601}$ | 1,428 | $\frac{9,772}{19,601}$ |
| 278 | 6,950,359 | $\frac{99}{139}$ | 6,949,640 | $\frac{40}{139}$ | 100,010 | $\frac{170}{483}$ | 1,438 | $\frac{446}{483}$ | 99,989 | $\frac{6,271}{9,661}$ | 1,438 | $\frac{7,482}{9,661}$ |
| 276 | 6,900,362 | $\frac{22}{69}$ | 6,899,637 | $\frac{47}{69}$ | 100,010 | $\frac{9,570}{19,043}$ | 1,449 | $\frac{6,693}{19,043}$ | 99,989 | $\frac{1,899}{3,809}$ | 1,449 | $\frac{759}{3,809}$ |
| 274 | 6,850,364 | $\frac{132}{137}$ | 6,849,635 | $\frac{5}{137}$ | 100,010 | $\frac{770}{1,173}$ | 1,459 | $\frac{1,093}{1,173}$ | 99,989 | $\frac{647}{1,877}$ | 1,459 | $\frac{1,457}{1,877}$ |
| 272 | 6,800,367 | $\frac{11}{17}$ | 6,799,632 | $\frac{6}{17}$ | 100,010 | $\frac{3,010}{3,699}$ | 1,470 | $\frac{2,470}{3,699}$ | 99,989 | $\frac{3,467}{18,497}$ | 1,470 | $\frac{9,410}{18,497}$ |
| 270 | 6,750,370 | $\frac{10}{27}$ | 6,749,629 | $\frac{17}{27}$ | 100,010 | $\frac{1,110}{1,139}$ | 1,481 | $\frac{641}{1,139}$ | 99,989 | $\frac{243}{9,113}$ | 1,481 | $\frac{3,647}{9,113}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Hypotenusa</i> | <i>Perpendicularum</i> | <i>Basis</i> | 100,000 | <i>Perpendicularum</i> | <i>Hypotenusa</i> | <i>Basis</i> | 100,000 |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | 39 | | |
|---------------------|-------------------------|------------------------|-------------------------|--------------|-------------------------|-------------------|-------------------------|------------------------|------------------|-------------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 1,492 | $\frac{8,156}{17,957}$ | 99,988 | $\frac{15,484}{17,957}$ | 1,492 | $\frac{2,228}{3,591}$ | 100,011 | $\frac{499}{3,591}$ | 6,699,626 | $\frac{58}{67}$ | 6,700,373 | $\frac{9}{67}$ | 268 |
| 1,503 | $\frac{1,193}{1,769}$ | 99,988 | $\frac{1,228}{1,769}$ | 1,503 | $\frac{1,867}{2,211}$ | 100,011 | $\frac{679}{2,211}$ | 6,649,624 | $\frac{8}{133}$ | 6,650,375 | $\frac{125}{133}$ | 266 |
| 1,515 | $\frac{45}{697}$ | 99,988 | $\frac{364}{697}$ | 1,515 | $\frac{4,155}{17,423}$ | 100,011 | $\frac{8,347}{17,423}$ | 6,599,621 | $\frac{7}{33}$ | 6,600,378 | $\frac{26}{33}$ | 264 |
| 1,526 | $\frac{5,394}{8,581}$ | 99,988 | $\frac{2,972}{8,581}$ | 1,526 | $\frac{346}{429}$ | 100,011 | $\frac{281}{429}$ | 6,549,618 | $\frac{42}{131}$ | 6,550,381 | $\frac{89}{131}$ | 262 |
| 1,538 | $\frac{6,262}{16,901}$ | 99,988 | $\frac{2,812}{16,901}$ | 1,538 | $\frac{9,338}{16,899}$ | 100,011 | $\frac{14,111}{16,899}$ | 6,499,615 | $\frac{5}{13}$ | 6,500,384 | $\frac{8}{13}$ | 260 |
| 1,550 | $\frac{2,450}{8,321}$ | 99,987 | $\frac{8,173}{8,321}$ | 1,550 | $\frac{25}{52}$ | 100,012 | $\frac{1}{52}$ | 6,449,612 | $\frac{52}{129}$ | 6,450,387 | $\frac{77}{129}$ | 258 |
| 1,562 | $\frac{1,326}{3,277}$ | 99,987 | $\frac{2,601}{3,277}$ | 1,562 | $\frac{9,754}{16,383}$ | 100,012 | $\frac{3,404}{16,383}$ | 6,399,609 | $\frac{3}{8}$ | 6,400,390 | $\frac{5}{8}$ | 256 |
| 1,574 | $\frac{1,138}{1,613}$ | 99,987 | $\frac{969}{1,613}$ | 1,574 | $\frac{227}{252}$ | 100,012 | $\frac{101}{252}$ | 6,349,606 | $\frac{38}{127}$ | 6,350,393 | $\frac{89}{127}$ | 254 |
| 1,587 | $\frac{3,201}{15,877}$ | 99,987 | $\frac{6,401}{15,877}$ | 1,587 | $\frac{51}{127}$ | 100,012 | $\frac{76}{127}$ | 6,299,603 | $\frac{11}{63}$ | 6,300,396 | $\frac{52}{63}$ | 252 |
| 1,599 | $\frac{7,013}{7,813}$ | 99,987 | $\frac{1,569}{7,813}$ | 1,600 | $\frac{200}{1,953}$ | 100,012 | $\frac{1,564}{1,953}$ | 6,249,600 | | 6,250,400 | | 250 |
| 1,612 | $\frac{12,276}{15,377}$ | 99,986 | $\frac{15,278}{15,377}$ | 1,613 | $\frac{1}{123}$ | 100,013 | $\frac{1}{123}$ | 6,199,596 | $\frac{24}{31}$ | 6,200,403 | $\frac{7}{31}$ | 248 |
| 1,625 | $\frac{1,375}{1,543}$ | 99,986 | $\frac{1,182}{1,543}$ | 1,626 | $\frac{234}{1,891}$ | 100,013 | $\frac{417}{1,891}$ | 6,149,593 | $\frac{61}{123}$ | 6,150,406 | $\frac{62}{123}$ | 246 |
| 1,639 | $\frac{697}{2,977}$ | 99,986 | $\frac{1,678}{2,977}$ | 1,639 | $\frac{6,763}{14,883}$ | 100,013 | $\frac{6,521}{14,883}$ | 6,099,590 | $\frac{10}{61}$ | 6,100,409 | $\frac{51}{61}$ | 244 |
| 1,652 | $\frac{5,708}{7,321}$ | 99,986 | $\frac{2,494}{7,321}$ | 1,653 | $\frac{1}{183}$ | 100,013 | $\frac{121}{183}$ | 6,049,586 | $\frac{94}{121}$ | 6,050,413 | $\frac{27}{121}$ | 242 |
| 1,666 | $\frac{7,934}{14,401}$ | 99,986 | $\frac{1,614}{14,401}$ | 1,666 | $\frac{11,266}{14,399}$ | 100,013 | $\frac{12,813}{14,399}$ | 5,999,583 | $\frac{1}{3}$ | 6,000,416 | $\frac{2}{3}$ | 240 |
| 1,680 | $\frac{3,920}{7,081}$ | 99,985 | $\frac{6,215}{7,081}$ | 1,680 | $\frac{140}{177}$ | 100,014 | $\frac{22}{177}$ | 5,949,579 | $\frac{99}{119}$ | 5,950,420 | $\frac{20}{119}$ | 238 |
| 1,694 | $\frac{442}{557}$ | 99,985 | $\frac{355}{557}$ | 1,695 | $\frac{515}{13,923}$ | 100,014 | $\frac{5,078}{13,923}$ | 5,899,576 | $\frac{16}{59}$ | 5,900,423 | $\frac{43}{59}$ | 236 |
| 1,709 | $\frac{379}{1,369}$ | 99,985 | $\frac{535}{1,369}$ | 1,709 | $\frac{901}{1,711}$ | 100,014 | $\frac{1,046}{1,711}$ | 5,849,572 | $\frac{76}{117}$ | 5,850,427 | $\frac{41}{117}$ | 234 |
| 1,724 | $\frac{132}{13,457}$ | 99,985 | $\frac{1,855}{13,457}$ | 1,724 | $\frac{716}{2,691}$ | 100,014 | $\frac{2,326}{2,691}$ | 5,799,568 | $\frac{28}{29}$ | 5,800,431 | $\frac{1}{29}$ | 232 |
| 1,738 | $\frac{6,606}{6,613}$ | 99,984 | $\frac{5,808}{6,613}$ | 1,739 | $\frac{433}{1,653}$ | 100,015 | $\frac{205}{1,653}$ | 5,749,565 | $\frac{5}{23}$ | 5,750,434 | $\frac{18}{23}$ | 230 |
| 1,754 | $\frac{3,262}{12,997}$ | 99,984 | $\frac{7,952}{12,997}$ | 1,754 | $\frac{1,354}{2,599}$ | 100,015 | $\frac{1,015}{2,599}$ | 5,699,561 | $\frac{23}{57}$ | 5,700,438 | $\frac{34}{57}$ | 228 |
| 1,769 | $\frac{987}{1,277}$ | 99,984 | $\frac{432}{1,277}$ | 1,770 | $\frac{20}{399}$ | 100,015 | $\frac{265}{399}$ | 5,649,557 | $\frac{59}{113}$ | 5,650,442 | $\frac{54}{113}$ | 226 |
| 1,785 | $\frac{1,435}{2,509}$ | 99,984 | $\frac{144}{2,509}$ | 1,785 | $\frac{10,745}{12,543}$ | 100,015 | $\frac{11,855}{12,543}$ | 5,599,553 | $\frac{4}{7}$ | 5,600,446 | $\frac{3}{7}$ | 224 |
| 1,801 | $\frac{4,039}{6,161}$ | 99,983 | $\frac{4,737}{6,161}$ | 1,801 | $\frac{73}{77}$ | 100,016 | $\frac{18}{77}$ | 5,549,549 | $\frac{61}{111}$ | 5,550,450 | $\frac{50}{111}$ | 222 |
| 1,818 | $\frac{382}{12,101}$ | 99,983 | $\frac{5,717}{12,101}$ | 1,818 | $\frac{4,018}{12,099}$ | 100,016 | $\frac{6,416}{12,099}$ | 5,499,545 | $\frac{5}{11}$ | 5,500,454 | $\frac{6}{11}$ | 220 |
| 1,834 | $\frac{4,206}{5,941}$ | 99,983 | $\frac{997}{5,941}$ | 1,835 | $\frac{5}{297}$ | 100,016 | $\frac{248}{297}$ | 5,449,541 | $\frac{31}{109}$ | 5,450,458 | $\frac{78}{109}$ | 218 |
| 1,851 | $\frac{1,617}{2,333}$ | 99,982 | $\frac{1,994}{2,333}$ | 1,852 | $\frac{124}{11,663}$ | 100,017 | $\frac{1,729}{11,663}$ | 5,399,537 | $\frac{1}{27}$ | 5,400,462 | $\frac{26}{27}$ | 216 |
| 1,868 | $\frac{228}{229}$ | 99,982 | $\frac{122}{229}$ | 1,869 | $\frac{461}{1,431}$ | 100,017 | $\frac{673}{1,431}$ | 5,349,532 | $\frac{76}{107}$ | 5,350,467 | $\frac{31}{107}$ | 214 |
| 1,886 | $\frac{7,018}{11,237}$ | 99,982 | $\frac{2,266}{11,237}$ | 1,886 | $\frac{2,158}{2,247}$ | 100,017 | $\frac{1,801}{2,247}$ | 5,299,528 | $\frac{16}{53}$ | 5,300,471 | $\frac{37}{53}$ | 212 |
| 1,904 | $\frac{3,248}{5,543}$ | 99,981 | $\frac{4,747}{5,543}$ | 1,904 | $\frac{644}{689}$ | 100,018 | $\frac{98}{689}$ | 5,249,523 | $\frac{17}{21}$ | 5,250,476 | $\frac{4}{21}$ | 210 |
| 1,922 | $\frac{9,726}{10,817}$ | 99,981 | $\frac{5,523}{10,817}$ | 1,923 | $\frac{551}{2,163}$ | 100,018 | $\frac{1,066}{2,163}$ | 5,199,519 | $\frac{3}{13}$ | 5,200,480 | $\frac{10}{13}$ | 208 |
| 1,941 | $\frac{599}{1,061}$ | 99,981 | $\frac{159}{1,061}$ | 1,941 | $\frac{617}{663}$ | 100,018 | $\frac{566}{663}$ | 5,149,514 | $\frac{58}{103}$ | 5,150,485 | $\frac{45}{103}$ | 206 |
| 1,960 | $\frac{1,240}{2,081}$ | 99,980 | $\frac{1,620}{2,081}$ | 1,960 | $\frac{10,120}{10,403}$ | 100,019 | $\frac{2,343}{10,403}$ | 5,099,509 | $\frac{41}{51}$ | 5,100,490 | $\frac{10}{51}$ | 204 |
| 1,980 | $\frac{20}{5,101}$ | 99,980 | $\frac{2,020}{5,101}$ | 1,980 | $\frac{20}{51}$ | 100,019 | $\frac{31}{51}$ | 5,049,504 | $\frac{96}{101}$ | 5,050,495 | $\frac{5}{101}$ | 202 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | Numeri primi Baseos |
| | 100,000 | | | | 100,000 | | | | 100,000 | | | |
| | Hypotenusa | | | | Perpendicularum | | | | Basis | | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 40 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|------------------------|-----------|-------------------|-------------------|-------------------------|--------------|-------------------------|------------|-------------------------|------------------------|-------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 200 | 5,000,500 | | 4,999,500 | | 100,020 | $\frac{20}{9,999}$ | 2,000 | $\frac{2,000}{9,999}$ | 99,980 | $\frac{20}{10,001}$ | 1,999 | $\frac{8,001}{10,001}$ |
| 199 | 4,975,502 | $\frac{102}{199}$ | 4,974,497 | $\frac{97}{199}$ | 100,020 | $\frac{8,060}{39,597}$ | 2,010 | $\frac{10,030}{39,597}$ | 99,979 | $\frac{6,341}{7,921}$ | 2,009 | $\frac{6,711}{7,921}$ |
| 198 | 4,950,505 | $\frac{5}{99}$ | 4,949,494 | $\frac{94}{99}$ | 100,020 | $\frac{20}{49}$ | 2,020 | $\frac{20}{49}$ | 99,979 | $\frac{2,021}{4,901}$ | 2,019 | $\frac{4,881}{4,901}$ |
| 197 | 4,925,507 | $\frac{121}{197}$ | 4,924,492 | $\frac{76}{197}$ | 100,020 | $\frac{4,780}{7,761}$ | 2,030 | $\frac{5,170}{7,761}$ | 99,979 | $\frac{15,073}{38,813}$ | 2,030 | $\frac{9,610}{38,813}$ |
| 196 | 4,900,510 | $\frac{10}{49}$ | 4,899,489 | $\frac{39}{49}$ | 100,020 | $\frac{7,940}{9,603}$ | 2,041 | $\frac{277}{9,603}$ | 99,979 | $\frac{341}{1,921}$ | 2,040 | $\frac{1,160}{1,921}$ |
| 195 | 4,875,512 | $\frac{32}{39}$ | 4,874,487 | $\frac{7}{39}$ | 100,021 | $\frac{1,559}{38,021}$ | 2,051 | $\frac{18,929}{38,021}$ | 99,978 | $\frac{36,638}{38,029}$ | 2,051 | $\frac{2,521}{38,029}$ |
| 194 | 4,850,515 | $\frac{45}{97}$ | 4,849,484 | $\frac{52}{97}$ | 100,021 | $\frac{38}{147}$ | 2,062 | $\frac{11}{147}$ | 99,978 | $\frac{702}{941}$ | 2,061 | $\frac{599}{941}$ |
| 193 | 4,825,518 | $\frac{26}{193}$ | 4,824,481 | $\frac{167}{193}$ | 100,021 | $\frac{3,571}{7,449}$ | 2,072 | $\frac{5,672}{7,449}$ | 99,978 | $\frac{19,566}{37,253}$ | 2,072 | $\frac{11,784}{37,253}$ |
| 192 | 4,800,520 | $\frac{5}{6}$ | 4,799,479 | $\frac{1}{6}$ | 100,021 | $\frac{1,297}{1,843}$ | 2,083 | $\frac{1,031}{1,843}$ | 99,978 | $\frac{2,774}{9,217}$ | 2,083 | $\frac{989}{9,217}$ |
| 191 | 4,775,523 | $\frac{107}{191}$ | 4,774,476 | $\frac{84}{191}$ | 100,021 | $\frac{33,983}{36,477}$ | 2,094 | $\frac{17,162}{36,477}$ | 99,978 | $\frac{534}{7,297}$ | 2,094 | $\frac{82}{7,297}$ |
| 190 | 4,750,526 | $\frac{6}{19}$ | 4,749,473 | $\frac{13}{19}$ | 100,022 | $\frac{23}{141}$ | 2,105 | $\frac{70}{141}$ | 99,977 | $\frac{3,799}{4,513}$ | 2,105 | $\frac{135}{4,513}$ |
| 189 | 4,725,529 | $\frac{19}{189}$ | 4,724,470 | $\frac{170}{189}$ | 100,022 | $\frac{14,226}{35,717}$ | 2,116 | $\frac{22,828}{35,717}$ | 99,977 | $\frac{867}{1,429}$ | 2,116 | $\frac{236}{1,429}$ |
| 188 | 4,700,531 | $\frac{43}{47}$ | 4,699,468 | $\frac{4}{47}$ | 100,022 | $\frac{1,126}{1,767}$ | 2,127 | $\frac{1,591}{1,767}$ | 99,977 | $\frac{3,251}{8,837}$ | 2,127 | $\frac{3,701}{8,837}$ |
| 187 | 4,675,534 | $\frac{142}{187}$ | 4,674,465 | $\frac{45}{187}$ | 100,022 | $\frac{6,154}{6,993}$ | 2,139 | $\frac{1,973}{6,993}$ | 99,977 | $\frac{4,379}{34,973}$ | 2,138 | $\frac{27,726}{34,973}$ |
| 186 | 4,650,537 | $\frac{59}{93}$ | 4,649,462 | $\frac{34}{93}$ | 100,023 | $\frac{137}{1,081}$ | 2,150 | $\frac{850}{1,081}$ | 99,976 | $\frac{152}{173}$ | 2,150 | $\frac{50}{173}$ |
| 185 | 4,625,540 | $\frac{20}{37}$ | 4,624,459 | $\frac{17}{37}$ | 100,023 | $\frac{12,917}{34,221}$ | 2,162 | $\frac{14,198}{34,221}$ | 99,976 | $\frac{21,496}{34,229}$ | 2,161 | $\frac{31,131}{34,229}$ |
| 184 | 4,600,543 | $\frac{11}{23}$ | 4,599,456 | $\frac{12}{23}$ | 100,023 | $\frac{5,351}{8,463}$ | 2,174 | $\frac{1,438}{8,463}$ | 99,976 | $\frac{632}{1,693}$ | 2,173 | $\frac{1,111}{1,693}$ |
| 183 | 4,575,546 | $\frac{82}{183}$ | 4,574,453 | $\frac{101}{183}$ | 100,023 | $\frac{5,969}{6,697}$ | 2,186 | $\frac{358}{6,697}$ | 99,976 | $\frac{3,832}{33,493}$ | 2,185 | $\frac{17,795}{33,493}$ |
| 182 | 4,550,549 | $\frac{41}{91}$ | 4,549,450 | $\frac{50}{91}$ | 100,024 | $\frac{32}{207}$ | 2,198 | $\frac{14}{207}$ | 99,975 | $\frac{3,525}{4,141}$ | 2,197 | $\frac{2,223}{4,141}$ |
| 181 | 4,525,552 | $\frac{88}{181}$ | 4,524,447 | $\frac{93}{181}$ | 100,024 | $\frac{13,832}{32,757}$ | 2,210 | $\frac{7,030}{32,757}$ | 99,975 | $\frac{3,825}{6,553}$ | 2,209 | $\frac{4,423}{6,553}$ |
| 180 | 4,500,555 | $\frac{5}{9}$ | 4,499,444 | $\frac{4}{9}$ | 100,024 | $\frac{5,624}{8,099}$ | 2,222 | $\frac{4,022}{8,099}$ | 99,975 | $\frac{2,525}{8,101}$ | 2,221 | $\frac{7,679}{8,101}$ |
| 179 | 4,475,558 | $\frac{118}{179}$ | 4,474,441 | $\frac{61}{179}$ | 100,024 | $\frac{31,112}{32,037}$ | 2,234 | $\frac{29,342}{32,037}$ | 99,975 | $\frac{225}{6,409}$ | 2,234 | $\frac{2,294}{6,409}$ |
| 178 | 4,450,561 | $\frac{71}{89}$ | 4,449,438 | $\frac{18}{89}$ | 100,025 | $\frac{25}{99}$ | 2,247 | $\frac{47}{99}$ | 99,974 | $\frac{2,986}{3,961}$ | 2,246 | $\frac{3,594}{3,961}$ |
| 177 | 4,425,564 | $\frac{172}{177}$ | 4,424,435 | $\frac{5}{177}$ | 100,025 | $\frac{675}{1,253}$ | 2,260 | $\frac{220}{1,253}$ | 99,974 | $\frac{14,658}{31,333}$ | 2,259 | $\frac{18,753}{31,333}$ |
| 176 | 4,400,568 | $\frac{2}{11}$ | 4,399,431 | $\frac{9}{11}$ | 100,025 | $\frac{6,425}{7,743}$ | 2,273 | $\frac{161}{7,743}$ | 99,974 | $\frac{274}{1,549}$ | 2,272 | $\frac{672}{1,549}$ |
| 175 | 4,375,571 | $\frac{3}{7}$ | 4,374,428 | $\frac{4}{7}$ | 100,026 | $\frac{3,854}{30,621}$ | 2,286 | $\frac{394}{30,621}$ | 99,973 | $\frac{26,983}{39,629}$ | 2,285 | $\frac{12,735}{39,629}$ |
| 174 | 4,350,574 | $\frac{62}{87}$ | 4,349,425 | $\frac{25}{87}$ | 100,026 | $\frac{202}{473}$ | 2,299 | $\frac{73}{473}$ | 99,973 | $\frac{439}{757}$ | 2,298 | $\frac{414}{757}$ |
| 173 | 4,325,578 | $\frac{6}{173}$ | 4,324,421 | $\frac{167}{173}$ | 100,026 | $\frac{878}{1,197}$ | 2,312 | $\frac{536}{1,197}$ | 99,973 | $\frac{8,191}{29,933}$ | 2,311 | $\frac{24,837}{29,933}$ |
| 172 | 4,300,581 | $\frac{17}{43}$ | 4,299,418 | $\frac{26}{43}$ | 100,027 | $\frac{67}{1,479}$ | 2,325 | $\frac{1,325}{1,479}$ | 99,972 | $\frac{7,116}{7,397}$ | 2,325 | $\frac{1,975}{7,397}$ |
| 171 | 4,275,584 | $\frac{136}{171}$ | 4,274,415 | $\frac{35}{171}$ | 100,027 | $\frac{10,601}{29,237}$ | 2,339 | $\frac{14,657}{29,237}$ | 99,972 | $\frac{3,772}{5,849}$ | 2,338 | $\frac{5,038}{5,849}$ |
| 170 | 4,250,588 | $\frac{4}{17}$ | 4,249,411 | $\frac{13}{17}$ | 100,027 | $\frac{619}{903}$ | 2,353 | $\frac{241}{903}$ | 99,972 | $\frac{1,164}{3,613}$ | 2,352 | $\frac{2,224}{3,613}$ |
| 169 | 4,225,591 | $\frac{121}{169}$ | 4,224,408 | $\frac{48}{169}$ | 100,028 | $\frac{404}{28,557}$ | 2,367 | $\frac{5,581}{28,557}$ | 99,971 | $\frac{5,677}{5,713}$ | 2,366 | $\frac{3,042}{5,713}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Hypotenusa</i> | 100,000 | <i>Basis</i> | <i>Perpendicularum</i> | 100,000 | <i>Basis</i> | <i>Perpendicularum</i> | 100,000 |
| | | | Basis | | | Perpendicularum | | | Hypotenusa | | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 41 | |
|---------------------|-------------------------|------------------------|-------------------------|-----------------|-------------------------|-------------------|-------------------------|------------------------|-------------------|-------------------|-------------------|---------------------|
| SERIES I. | | | SERIES II. | | | SERIES III. | | | | | | |
| 2,380 | $\frac{4,340}{7,057}$ | 99,971 | $\frac{4,653}{7,057}$ | 2,381 | $\frac{409}{1,411}$ | 100,028 | $\frac{492}{1,411}$ | 4,199,404 | $\frac{16}{21}$ | 4,200,595 | $\frac{5}{21}$ | 168 |
| 2,394 | $\frac{24,158}{27,893}$ | 99,971 | $\frac{8,897}{27,893}$ | 2,395 | $\frac{3,085}{5,577}$ | 100,028 | $\frac{3,844}{5,577}$ | 4,174,401 | $\frac{33}{167}$ | 4,175,598 | $\frac{134}{167}$ | 167 |
| 2,409 | $\frac{199}{689}$ | 99,970 | $\frac{670}{689}$ | 2,409 | $\frac{851}{861}$ | 100,029 | $\frac{31}{861}$ | 4,149,397 | $\frac{49}{83}$ | 4,150,602 | $\frac{34}{83}$ | 166 |
| 2,423 | $\frac{24,133}{27,229}$ | 99,970 | $\frac{16,870}{27,229}$ | 2,424 | $\frac{16,296}{27,221}$ | 100,029 | $\frac{10,591}{27,221}$ | 4,124,393 | $\frac{31}{33}$ | 4,125,606 | $\frac{2}{33}$ | 165 |
| 2,438 | $\frac{178}{269}$ | 99,970 | $\frac{70}{269}$ | 2,439 | $\frac{2,603}{6,723}$ | 100,029 | $\frac{5,033}{6,723}$ | 4,099,390 | $\frac{10}{41}$ | 4,100,609 | $\frac{31}{41}$ | 164 |
| 2,453 | $\frac{16,431}{26,573}$ | 99,969 | $\frac{23,763}{26,573}$ | 2,454 | $\frac{1,898}{5,313}$ | 100,030 | $\frac{610}{5,313}$ | 4,074,386 | $\frac{82}{163}$ | 4,075,613 | $\frac{81}{163}$ | 163 |
| 2,468 | $\frac{2,492}{3,281}$ | 99,969 | $\frac{1,711}{3,281}$ | 2,469 | $\frac{21}{41}$ | 100,030 | $\frac{20}{41}$ | 4,049,382 | $\frac{58}{81}$ | 4,050,617 | $\frac{23}{81}$ | 162 |
| 2,484 | $\frac{92}{1,037}$ | 99,969 | $\frac{147}{1,037}$ | 2,484 | $\frac{22,172}{25,917}$ | 100,030 | $\frac{22,490}{25,917}$ | 4,024,378 | $\frac{142}{161}$ | 4,025,621 | $\frac{19}{161}$ | 161 |
| 2,499 | $\frac{3,901}{6,401}$ | 99,968 | $\frac{4,832}{6,401}$ | 2,500 | $\frac{2,500}{6,399}$ | 100,031 | $\frac{1,631}{6,399}$ | 3,999,375 | | 4,000,625 | | 160 |
| 2,515 | $\frac{1,645}{5,057}$ | 99,968 | $\frac{1,824}{5,057}$ | 2,516 | $\frac{3,068}{25,277}$ | 100,031 | $\frac{16,413}{25,277}$ | 3,974,371 | $\frac{11}{159}$ | 3,975,628 | $\frac{148}{159}$ | 159 |
| 2,531 | $\frac{749}{3,121}$ | 99,967 | $\frac{2,993}{3,121}$ | 2,532 | $\frac{2}{39}$ | 100,032 | $\frac{2}{39}$ | 3,949,367 | $\frac{7}{79}$ | 3,950,632 | $\frac{72}{79}$ | 158 |
| 2,547 | $\frac{8,809}{24,653}$ | 99,967 | $\frac{13,549}{24,653}$ | 2,548 | $\frac{908}{4,929}$ | 100,032 | $\frac{2,272}{4,929}$ | 3,924,363 | $\frac{9}{157}$ | 3,925,636 | $\frac{148}{157}$ | 157 |
| 2,563 | $\frac{829}{1,217}$ | 99,967 | $\frac{161}{1,217}$ | 2,564 | $\frac{3,188}{6,083}$ | 100,032 | $\frac{5,344}{6,083}$ | 3,899,358 | $\frac{38}{39}$ | 3,900,641 | $\frac{1}{39}$ | 156 |
| 2,580 | $\frac{5,180}{24,029}$ | 99,966 | $\frac{16,986}{24,029}$ | 2,581 | $\frac{1,799}{24,021}$ | 100,033 | $\frac{7,307}{24,021}$ | 3,874,354 | $\frac{26}{31}$ | 3,875,645 | $\frac{5}{31}$ | 155 |
| 2,596 | $\frac{572}{593}$ | 99,966 | $\frac{162}{593}$ | 2,597 | $\frac{623}{741}$ | 100,033 | $\frac{547}{741}$ | 3,849,350 | $\frac{59}{77}$ | 3,850,649 | $\frac{27}{77}$ | 154 |
| 2,613 | $\frac{21,831}{23,413}$ | 99,965 | $\frac{19,455}{23,413}$ | 2,614 | $\frac{3,866}{4,681}$ | 100,034 | $\frac{846}{4,681}$ | 3,824,346 | $\frac{62}{153}$ | 3,825,653 | $\frac{91}{153}$ | 153 |
| 2,631 | $\frac{713}{5,777}$ | 99,965 | $\frac{2,195}{5,777}$ | 2,632 | $\frac{8}{231}$ | 100,034 | $\frac{146}{231}$ | 3,799,342 | $\frac{2}{19}$ | 3,800,657 | $\frac{17}{19}$ | 152 |
| 2,648 | $\frac{2,472}{4,561}$ | 99,964 | $\frac{4,196}{4,561}$ | 2,649 | $\frac{10,747}{22,797}$ | 100,035 | $\frac{2,105}{22,797}$ | 3,774,337 | $\frac{113}{151}$ | 3,775,662 | $\frac{38}{151}$ | 151 |
| 2,666 | $\frac{542}{2,813}$ | 99,964 | $\frac{1,268}{2,813}$ | 2,667 | $\frac{99}{703}$ | 100,035 | $\frac{395}{703}$ | 3,749,333 | $\frac{1}{3}$ | 3,750,666 | $\frac{2}{3}$ | 150 |
| 2,684 | $\frac{356}{4,441}$ | 99,963 | $\frac{4,317}{4,441}$ | 2,685 | $\frac{1,055}{22,197}$ | 100,036 | $\frac{908}{22,197}$ | 3,724,328 | $\frac{128}{149}$ | 3,725,671 | $\frac{21}{149}$ | 149 |
| 2,702 | $\frac{1,146}{5,477}$ | 99,963 | $\frac{2,649}{5,477}$ | 2,703 | $\frac{43}{219}$ | 100,036 | $\frac{116}{219}$ | 3,699,324 | $\frac{12}{37}$ | 3,700,675 | $\frac{25}{37}$ | 148 |
| 2,720 | $\frac{12,640}{21,613}$ | 99,962 | $\frac{21,294}{21,613}$ | 2,721 | $\frac{2,559}{4,321}$ | 100,037 | $\frac{123}{4,321}$ | 3,674,319 | $\frac{107}{147}$ | 3,675,680 | $\frac{40}{147}$ | 147 |
| 2,739 | $\frac{113}{533}$ | 99,962 | $\frac{254}{533}$ | 2,740 | $\frac{80}{333}$ | 100,037 | $\frac{179}{333}$ | 3,649,315 | $\frac{5}{73}$ | 3,650,684 | $\frac{68}{73}$ | 146 |
| 2,758 | $\frac{2,018}{21,029}$ | 99,961 | $\frac{20,131}{21,029}$ | 2,759 | $\frac{3,061}{21,021}$ | 100,038 | $\frac{1,202}{21,021}$ | 3,624,310 | $\frac{10}{29}$ | 3,625,689 | $\frac{19}{29}$ | 145 |
| 2,777 | $\frac{251}{1,037}$ | 99,961 | $\frac{443}{1,037}$ | 2,778 | $\frac{1,626}{5,183}$ | 100,038 | $\frac{3,046}{5,183}$ | 3,599,305 | $\frac{5}{9}$ | 3,600,694 | $\frac{4}{9}$ | 144 |
| 2,796 | $\frac{13,412}{20,453}$ | 99,960 | $\frac{18,120}{20,453}$ | 2,797 | $\frac{3,067}{4,089}$ | 100,039 | $\frac{529}{4,089}$ | 3,574,300 | $\frac{100}{143}$ | 3,575,699 | $\frac{43}{143}$ | 143 |
| 2,816 | $\frac{864}{2,521}$ | 99,960 | $\frac{840}{2,521}$ | 2,817 | $\frac{29}{63}$ | 100,039 | $\frac{43}{63}$ | 3,549,295 | $\frac{55}{71}$ | 3,550,704 | $\frac{16}{71}$ | 142 |
| 2,836 | $\frac{1,228}{3,977}$ | 99,959 | $\frac{3,957}{3,977}$ | 2,837 | $\frac{8,951}{19,877}$ | 100,040 | $\frac{4,920}{19,877}$ | 3,524,290 | $\frac{110}{141}$ | 3,525,709 | $\frac{31}{141}$ | 141 |
| 2,856 | $\frac{2,744}{4,901}$ | 99,959 | $\frac{941}{4,901}$ | 2,857 | $\frac{3,557}{4,899}$ | 100,040 | $\frac{4,040}{4,899}$ | 3,499,285 | $\frac{5}{7}$ | 3,500,714 | $\frac{2}{7}$ | 140 |
| 2,877 | $\frac{79}{773}$ | 99,958 | $\frac{466}{773}$ | 2,878 | $\frac{5,674}{19,317}$ | 100,041 | $\frac{8,003}{19,317}$ | 3,474,280 | $\frac{80}{139}$ | 3,475,719 | $\frac{59}{139}$ | 139 |
| 2,897 | $\frac{2,243}{2,381}$ | 99,958 | $\frac{2}{2,381}$ | 2,899 | $\frac{19}{119}$ | 100,042 | $\frac{2}{119}$ | 3,449,275 | $\frac{25}{69}$ | 3,450,724 | $\frac{44}{69}$ | 138 |
| 2,919 | $\frac{1,613}{18,773}$ | 99,957 | $\frac{7,239}{18,773}$ | 2,920 | $\frac{1,240}{3,753}$ | 100,042 | $\frac{2,374}{3,753}$ | 3,424,270 | $\frac{10}{137}$ | 3,425,729 | $\frac{127}{137}$ | 137 |
| 2,940 | $\frac{20}{37}$ | 99,956 | $\frac{28}{37}$ | 2,941 | $\frac{3,757}{4,623}$ | 100,043 | $\frac{1,211}{4,623}$ | 3,399,264 | $\frac{12}{17}$ | 3,400,735 | $\frac{5}{17}$ | 136 |
| 2,962 | $\frac{5,702}{18,229}$ | 99,956 | $\frac{2,076}{18,229}$ | 2,963 | $\frac{11,177}{18,221}$ | 100,043 | $\frac{16,497}{18,221}$ | 3,374,259 | $\frac{7}{27}$ | 3,375,740 | $\frac{20}{27}$ | 135 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | Numeri primi Baseos |
| 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | |
| Hypotenusa | | Perpendicularum | | Perpendicularum | | Hypotenusa | | Basis | | Hypotenusa | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 42 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-------------------|------------------------|-------------------|-------------------|-------------------------|-----------------|-------------------------|------------------------|-------------------------|--------------|-------------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 134 | 3,350,746 | $\frac{18}{67}$ | 3,349,253 | $\frac{49}{67}$ | 100,044 | $\frac{316}{561}$ | 2,985 | $\frac{415}{561}$ | 99,955 | $\frac{205}{449}$ | 2,984 | $\frac{184}{449}$ |
| 133 | 3,325,751 | $\frac{117}{133}$ | 3,324,248 | $\frac{16}{133}$ | 100,045 | $\frac{835}{3,537}$ | 3,008 | $\frac{704}{3,537}$ | 99,954 | $\frac{13,878}{17,693}$ | 3,006 | $\frac{14,842}{17,693}$ |
| 132 | 3,300,757 | $\frac{19}{33}$ | 3,299,242 | $\frac{14}{33}$ | 100,045 | $\frac{805}{871}$ | 3,030 | $\frac{870}{871}$ | 99,954 | $\frac{422}{4,357}$ | 3,029 | $\frac{2,647}{4,357}$ |
| 131 | 3,275,763 | $\frac{47}{131}$ | 3,274,236 | $\frac{84}{131}$ | 100,046 | $\frac{10,778}{17,157}$ | 3,054 | $\frac{2,522}{17,157}$ | 99,953 | $\frac{1,351}{3,433}$ | 3,052 | $\frac{2,484}{3,433}$ |
| 130 | 3,250,769 | $\frac{3}{13}$ | 3,249,230 | $\frac{10}{13}$ | 100,047 | $\frac{23}{66}$ | 3,077 | $\frac{43}{66}$ | 99,952 | $\frac{1,424}{2,113}$ | 3,076 | $\frac{412}{2,113}$ |
| 129 | 3,225,775 | $\frac{25}{129}$ | 3,224,224 | $\frac{104}{129}$ | 100,048 | $\frac{1,424}{16,637}$ | 3,101 | $\frac{8,663}{16,637}$ | 99,951 | $\frac{3,121}{3,329}$ | 3,100 | $\frac{100}{3,329}$ |
| 128 | 3,200,781 | $\frac{1}{4}$ | 3,199,218 | $\frac{3}{4}$ | 100,048 | $\frac{688}{819}$ | 3,125 | $\frac{625}{819}$ | 99,951 | $\frac{753}{4,097}$ | 3,124 | $\frac{972}{4,097}$ |
| 127 | 3,175,787 | $\frac{51}{127}$ | 3,174,212 | $\frac{76}{127}$ | 100,049 | $\frac{79}{129}$ | 3,150 | $\frac{50}{129}$ | 99,950 | $\frac{6,650}{16,133}$ | 3,148 | $\frac{13,316}{16,133}$ |
| 126 | 3,150,793 | $\frac{41}{63}$ | 3,149,206 | $\frac{22}{63}$ | 100,050 | $\frac{25}{62}$ | 3,175 | $\frac{25}{62}$ | 99,949 | $\frac{247}{397}$ | 3,173 | $\frac{319}{397}$ |
| 125 | 3,125,800 | | 3,124,200 | | 100,051 | $\frac{3,329}{15,621}$ | 3,200 | $\frac{12,800}{15,621}$ | 99,948 | $\frac{12,708}{15,629}$ | 3,199 | $\frac{2,829}{15,629}$ |
| 124 | 3,100,806 | $\frac{14}{31}$ | 3,099,193 | $\frac{17}{31}$ | 100,052 | $\frac{164}{3,843}$ | 3,226 | $\frac{2,482}{3,843}$ | 99,947 | $\frac{757}{769}$ | 3,224 | $\frac{744}{769}$ |
| 123 | 3,075,813 | $\frac{1}{123}$ | 3,074,186 | $\frac{122}{123}$ | 100,052 | $\frac{108}{121}$ | 3,252 | $\frac{108}{121}$ | 99,947 | $\frac{2,049}{15,133}$ | 3,251 | $\frac{2,617}{15,133}$ |
| 122 | 3,050,819 | $\frac{41}{61}$ | 3,049,180 | $\frac{20}{61}$ | 100,053 | $\frac{71}{93}$ | 3,279 | $\frac{53}{93}$ | 99,946 | $\frac{494}{1,861}$ | 3,277 | $\frac{1,503}{1,861}$ |
| 121 | 3,025,826 | $\frac{54}{121}$ | 3,024,173 | $\frac{67}{121}$ | 100,054 | $\frac{9,602}{14,637}$ | 3,306 | $\frac{10,078}{14,637}$ | 99,945 | $\frac{1,095}{2,929}$ | 3,304 | $\frac{2,584}{2,929}$ |
| 120 | 3,000,833 | $\frac{1}{3}$ | 2,999,166 | $\frac{2}{3}$ | 100,055 | $\frac{2,055}{3,599}$ | 3,334 | $\frac{934}{3,599}$ | 99,944 | $\frac{1,656}{3,601}$ | 3,332 | $\frac{1,468}{3,601}$ |
| 119 | 2,975,840 | $\frac{40}{119}$ | 2,974,159 | $\frac{79}{119}$ | 100,056 | $\frac{7,208}{14,157}$ | 3,362 | $\frac{4,166}{14,157}$ | 99,943 | $\frac{1,481}{2,833}$ | 3,360 | $\frac{1,120}{2,833}$ |
| 118 | 2,950,847 | $\frac{27}{59}$ | 2,949,152 | $\frac{32}{59}$ | 100,057 | $\frac{41}{87}$ | 3,390 | $\frac{70}{87}$ | 99,942 | $\frac{978}{1,741}$ | 3,388 | $\frac{1,492}{1,741}$ |
| 117 | 2,925,854 | $\frac{82}{117}$ | 2,924,145 | $\frac{35}{117}$ | 100,058 | $\frac{1,254}{2,737}$ | 3,419 | $\frac{2,197}{2,737}$ | 99,941 | $\frac{7,887}{13,693}$ | 3,417 | $\frac{11,019}{13,693}$ |
| 116 | 2,900,862 | $\frac{2}{29}$ | 2,899,137 | $\frac{27}{29}$ | 100,059 | $\frac{1,583}{3,363}$ | 3,449 | $\frac{1,013}{3,363}$ | 99,940 | $\frac{380}{673}$ | 3,447 | $\frac{169}{673}$ |
| 115 | 2,875,869 | $\frac{13}{23}$ | 2,874,130 | $\frac{10}{23}$ | 100,060 | $\frac{6,740}{13,221}$ | 3,479 | $\frac{4,141}{13,221}$ | 99,939 | $\frac{6,969}{13,229}$ | 3,477 | $\frac{2,767}{13,229}$ |
| 114 | 2,850,877 | $\frac{11}{57}$ | 2,849,122 | $\frac{46}{57}$ | 100,061 | $\frac{117}{203}$ | 3,509 | $\frac{173}{203}$ | 99,938 | $\frac{6}{13}$ | 3,507 | $\frac{9}{13}$ |
| 113 | 2,825,884 | $\frac{108}{113}$ | 2,824,115 | $\frac{5}{113}$ | 100,062 | $\frac{1,714}{2,553}$ | 3,540 | $\frac{2,380}{2,553}$ | 99,937 | $\frac{4,699}{12,773}$ | 3,538 | $\frac{9,126}{12,773}$ |
| 112 | 2,800,892 | $\frac{6}{7}$ | 2,799,107 | $\frac{1}{7}$ | 100,063 | $\frac{499}{627}$ | 3,572 | $\frac{356}{627}$ | 99,936 | $\frac{768}{3,137}$ | 3,570 | $\frac{910}{3,137}$ |
| 111 | 2,775,900 | $\frac{100}{111}$ | 2,774,099 | $\frac{11}{111}$ | 100,064 | $\frac{11,712}{12,317}$ | 3,604 | $\frac{9,532}{12,317}$ | 99,935 | $\frac{45}{493}$ | 3,602 | $\frac{214}{493}$ |
| 110 | 2,750,909 | $\frac{1}{11}$ | 2,749,090 | $\frac{10}{11}$ | 100,066 | $\frac{26}{189}$ | 3,637 | $\frac{107}{189}$ | 99,933 | $\frac{1,371}{1,513}$ | 3,635 | $\frac{245}{1,513}$ |
| 109 | 2,725,917 | $\frac{47}{109}$ | 2,724,082 | $\frac{62}{109}$ | 100,067 | $\frac{4,241}{11,877}$ | 3,670 | $\frac{11,410}{11,877}$ | 99,932 | $\frac{1,636}{2,377}$ | 3,668 | $\frac{1,164}{2,377}$ |
| 108 | 2,700,925 | $\frac{25}{27}$ | 2,699,074 | $\frac{2}{27}$ | 100,068 | $\frac{356}{583}$ | 3,704 | $\frac{568}{583}$ | 99,931 | $\frac{1,273}{2,917}$ | 3,702 | $\frac{1,266}{2,917}$ |
| 107 | 2,675,934 | $\frac{62}{107}$ | 2,674,065 | $\frac{45}{107}$ | 100,069 | $\frac{2,059}{2,289}$ | 3,739 | $\frac{1,429}{2,289}$ | 99,930 | $\frac{1,710}{11,453}$ | 3,737 | $\frac{139}{11,453}$ |
| 106 | 2,650,943 | $\frac{21}{53}$ | 2,649,056 | $\frac{32}{53}$ | 100,071 | $\frac{79}{351}$ | 3,774 | $\frac{326}{351}$ | 99,928 | $\frac{232}{281}$ | 3,772 | $\frac{68}{281}$ |
| 105 | 2,625,952 | $\frac{8}{21}$ | 2,624,047 | $\frac{13}{21}$ | 100,072 | $\frac{6,488}{11,021}$ | 3,810 | $\frac{9,990}{11,021}$ | 99,927 | $\frac{5,117}{11,029}$ | 3,808 | $\frac{1,568}{11,029}$ |
| 104 | 2,600,961 | $\frac{7}{13}$ | 2,599,038 | $\frac{6}{13}$ | 100,073 | $\frac{2,681}{2,703}$ | 3,847 | $\frac{1,559}{2,703}$ | 99,926 | $\frac{34}{541}$ | 3,844 | $\frac{396}{541}$ |
| 103 | 2,575,970 | $\frac{90}{103}$ | 2,574,029 | $\frac{13}{103}$ | 100,075 | $\frac{925}{2,121}$ | 3,884 | $\frac{2,036}{2,121}$ | 99,924 | $\frac{6,588}{10,613}$ | 3,882 | $\frac{334}{10,613}$ |
| 102 | 2,550,980 | $\frac{20}{51}$ | 2,549,019 | $\frac{31}{51}$ | 100,076 | $\frac{12}{13}$ | 3,923 | $\frac{1}{13}$ | 99,923 | $\frac{177}{1,301}$ | 3,920 | $\frac{80}{1,301}$ |
| 101 | 2,525,990 | $\frac{10}{101}$ | 2,524,009 | $\frac{91}{101}$ | 100,078 | $\frac{4,634}{10,197}$ | 3,961 | $\frac{9,683}{10,197}$ | 99,921 | $\frac{1,239}{2,041}$ | 3,958 | $\frac{1,722}{2,041}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | | | Basis | | | | Perpendicularum | | | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | 43 | |
|---------------------|-----------------------|------------------------|-----------------------|--------------|-----------------------|-------------------|-----------------------|------------------------|---------------------------|--------------------|----|---------------------|
| SERIES I. | | | SERIES II. | | | | SERIES III. | | | | | |
| 3,998 | $\frac{1,002}{2,501}$ | 99,920 | $\frac{80}{2,501}$ | 4,001 | $\frac{1,501}{2,499}$ | 100,080 | $\frac{80}{2,499}$ | 2,499,000 | 2,501,000 | 100 | | |
| 4,038 | $\frac{1,482}{1,961}$ | 99,918 | $\frac{802}{1,961}$ | 4,042 | $\frac{526}{9,797}$ | 100,081 | $\frac{6,443}{9,797}$ | 2,473,989 | $\frac{89}{99}$ 2,476,010 | $\frac{10}{99}$ 99 | | |
| 4,079 | $\frac{1,121}{1,201}$ | 99,916 | $\frac{884}{1,201}$ | 4,083 | $\frac{1}{3}$ | 100,083 | $\frac{1}{3}$ | 2,448,979 | $\frac{29}{49}$ 2,451,020 | $\frac{20}{49}$ 98 | | |
| 4,121 | $\frac{9,027}{9,413}$ | 99,915 | $\frac{105}{9,413}$ | 4,125 | $\frac{875}{1,881}$ | 100,085 | $\frac{115}{1,881}$ | 2,423,969 | $\frac{7}{97}$ 2,426,030 | $\frac{90}{97}$ 97 | | |
| 4,164 | $\frac{396}{461}$ | 99,913 | $\frac{107}{461}$ | 4,168 | $\frac{1,096}{2,303}$ | 100,086 | $\frac{1,942}{2,303}$ | 2,398,958 | $\frac{1}{3}$ 2,401,041 | $\frac{2}{3}$ 96 | | |
| 4,208 | $\frac{5,968}{9,029}$ | 99,911 | $\frac{3,581}{9,029}$ | 4,212 | $\frac{3,548}{9,021}$ | 100,088 | $\frac{6,152}{9,021}$ | 2,373,947 | $\frac{7}{19}$ 2,376,052 | $\frac{12}{19}$ 95 | | |
| 4,253 | $\frac{87}{221}$ | 99,909 | $\frac{111}{221}$ | 4,257 | $\frac{17}{69}$ | 100,090 | $\frac{40}{69}$ | 2,348,936 | $\frac{8}{47}$ 2,351,063 | $\frac{39}{47}$ 94 | | |
| 4,299 | $\frac{753}{8,653}$ | 99,907 | $\frac{4,729}{8,653}$ | 4,303 | $\frac{113}{1,729}$ | 100,092 | $\frac{932}{1,729}$ | 2,323,924 | $\frac{68}{93}$ 2,326,075 | $\frac{25}{93}$ 93 | | |
| 4,345 | $\frac{1,635}{2,117}$ | 99,905 | $\frac{1,115}{2,117}$ | 4,349 | $\frac{373}{423}$ | 100,094 | $\frac{238}{423}$ | 2,298,913 | $\frac{1}{23}$ 2,301,086 | $\frac{22}{23}$ 92 | | |
| 4,393 | $\frac{799}{1,657}$ | 99,903 | $\frac{729}{1,657}$ | 4,397 | $\frac{6,031}{8,277}$ | 100,096 | $\frac{5,408}{8,277}$ | 2,273,901 | $\frac{9}{91}$ 2,276,098 | $\frac{82}{91}$ 91 | | |
| 4,442 | $\frac{254}{1,013}$ | 99,901 | $\frac{287}{1,013}$ | 4,446 | $\frac{162}{253}$ | 100,098 | $\frac{206}{253}$ | 2,248,888 | $\frac{8}{9}$ 2,251,111 | $\frac{1}{9}$ 90 | | |
| 4,492 | $\frac{36}{317}$ | 99,899 | $\frac{17}{317}$ | 4,496 | $\frac{5,168}{7,917}$ | 100,101 | $\frac{383}{7,917}$ | 2,223,876 | $\frac{36}{89}$ 2,226,123 | $\frac{53}{89}$ 89 | | |
| 4,543 | $\frac{209}{1,937}$ | 99,896 | $\frac{1,448}{1,937}$ | 4,547 | $\frac{311}{387}$ | 100,103 | $\frac{139}{387}$ | 2,198,863 | $\frac{7}{11}$ 2,201,136 | $\frac{4}{11}$ 88 | | |
| 4,595 | $\frac{2,065}{7,573}$ | 99,894 | $\frac{2,738}{7,573}$ | 4,600 | $\frac{200}{1,513}$ | 100,105 | $\frac{1,135}{1,513}$ | 2,173,850 | $\frac{50}{87}$ 2,176,149 | $\frac{37}{87}$ 87 | | |
| 4,648 | $\frac{24}{37}$ | 99,891 | $\frac{33}{37}$ | 4,653 | $\frac{157}{231}$ | 100,108 | $\frac{52}{231}$ | 2,148,837 | $\frac{9}{43}$ 2,151,162 | $\frac{34}{43}$ 86 | | |
| 4,703 | $\frac{2,013}{7,229}$ | 99,889 | $\frac{2,419}{7,229}$ | 4,708 | $\frac{3,532}{7,221}$ | 100,110 | $\frac{5,690}{7,221}$ | 2,123,823 | $\frac{9}{17}$ 2,126,176 | $\frac{8}{17}$ 85 | | |
| 4,759 | $\frac{73}{353}$ | 99,886 | $\frac{242}{353}$ | 4,764 | $\frac{1,068}{1,763}$ | 100,113 | $\frac{781}{1,763}$ | 2,098,809 | $\frac{11}{21}$ 2,101,190 | $\frac{10}{21}$ 84 | | |
| 4,816 | $\frac{3,312}{6,893}$ | 99,883 | $\frac{6,481}{6,893}$ | 4,822 | $\frac{106}{1,377}$ | 100,116 | $\frac{268}{1,377}$ | 2,073,795 | $\frac{15}{83}$ 2,076,204 | $\frac{68}{83}$ 83 | | |
| 4,875 | $\frac{125}{841}$ | 99,881 | $\frac{79}{841}$ | 4,880 | $\frac{20}{21}$ | 100,119 | $\frac{1}{21}$ | 2,048,780 | $\frac{20}{41}$ 2,051,219 | $\frac{21}{41}$ 82 | | |
| 4,935 | $\frac{345}{1,313}$ | 99,878 | $\frac{186}{1,313}$ | 4,941 | $\frac{1,863}{6,557}$ | 100,122 | $\frac{46}{6,557}$ | 2,023,765 | $\frac{35}{81}$ 2,026,234 | $\frac{46}{81}$ 81 | | |
| 4,996 | $\frac{1,404}{1,601}$ | 99,875 | $\frac{125}{1,601}$ | 5,003 | $\frac{203}{1,599}$ | 100,125 | $\frac{125}{1,599}$ | 1,998,750 | 2,001,250 | 80 | | |
| 5,060 | $\frac{60}{1,249}$ | 99,871 | $\frac{1,121}{1,249}$ | 5,066 | $\frac{3,358}{6,237}$ | 100,128 | $\frac{1,664}{6,237}$ | 1,973,734 | $\frac{14}{79}$ 1,976,265 | $\frac{65}{79}$ 79 | | |
| 5,124 | $\frac{636}{761}$ | 99,868 | $\frac{452}{761}$ | 5,131 | $\frac{11}{19}$ | 100,131 | $\frac{11}{19}$ | 1,948,717 | $\frac{37}{39}$ 1,951,282 | $\frac{2}{39}$ 78 | | |
| 5,191 | $\frac{1,797}{5,933}$ | 99,865 | $\frac{955}{5,933}$ | 5,198 | $\frac{74}{237}$ | 100,135 | $\frac{5}{237}$ | 1,923,701 | $\frac{23}{77}$ 1,926,298 | $\frac{54}{77}$ 77 | | |
| 5,259 | $\frac{149}{289}$ | 99,861 | $\frac{171}{289}$ | 5,266 | $\frac{1,162}{1,443}$ | 100,138 | $\frac{866}{1,443}$ | 1,898,684 | $\frac{4}{19}$ 1,901,315 | $\frac{15}{19}$ 76 | | |
| 5,329 | $\frac{3,059}{5,629}$ | 99,857 | $\frac{4,947}{5,629}$ | 5,337 | $\frac{723}{5,621}$ | 100,142 | $\frac{1,818}{5,621}$ | 1,873,666 | $\frac{2}{3}$ 1,876,333 | $\frac{1}{3}$ 75 | | |
| 5,401 | $\frac{63}{137}$ | 99,854 | $\frac{2}{137}$ | 5,409 | $\frac{61}{171}$ | 100,146 | $\frac{34}{171}$ | 1,848,648 | $\frac{24}{37}$ 1,851,351 | $\frac{13}{37}$ 74 | | |
| 5,475 | $\frac{1,825}{5,333}$ | 99,849 | $\frac{5,283}{5,333}$ | 5,483 | $\frac{121}{213}$ | 100,150 | $\frac{50}{213}$ | 1,823,630 | $\frac{10}{73}$ 1,826,369 | $\frac{63}{73}$ 73 | | |
| 5,551 | $\frac{353}{1,297}$ | 99,845 | $\frac{1,035}{1,297}$ | 5,559 | $\frac{219}{259}$ | 100,154 | $\frac{114}{259}$ | 1,798,611 | $\frac{1}{9}$ 1,801,388 | $\frac{8}{9}$ 72 | | |
| 5,629 | $\frac{339}{1,009}$ | 99,841 | $\frac{431}{1,009}$ | 5,638 | $\frac{1,394}{5,037}$ | 100,158 | $\frac{4,154}{5,037}$ | 1,773,591 | $\frac{39}{71}$ 1,776,408 | $\frac{32}{71}$ 71 | | |
| 5,709 | $\frac{383}{613}$ | 99,836 | $\frac{532}{613}$ | 5,718 | $\frac{146}{153}$ | 100,163 | $\frac{61}{153}$ | 1,748,571 | $\frac{3}{7}$ 1,751,428 | $\frac{4}{7}$ 70 | | |
| 5,792 | $\frac{224}{953}$ | 99,832 | $\frac{104}{953}$ | 5,801 | $\frac{4,643}{4,757}$ | 100,168 | $\frac{824}{4,757}$ | 1,723,550 | $\frac{50}{69}$ 1,726,449 | $\frac{19}{69}$ 69 | | |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | Numeri primi Baseos |
| 100,000 | | Hypotenusa | | 100,000 | | Perpendicularum | | 100,000 | | Basis | | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| 44 CANONION TRIANGVLORVM | | | | | | | | | | | | |
|--------------------------|-------------------|-----------------|------------------------|-----------------|-------------------|-----------------------|-----------------|-----------------------|------------------------|-----------------------|--------------|-----------------------|
| | SERIES III. | | | | SERIES II. | | | | SERIES I. | | | |
| 68 | 1,701,470 | $\frac{10}{17}$ | 1,698,529 | $\frac{7}{17}$ | 100,173 | $\frac{37}{231}$ | 5,887 | $\frac{103}{231}$ | 99,827 | $\frac{161}{1,157}$ | 5,877 | $\frac{311}{1,157}$ |
| 67 | 1,676,492 | $\frac{36}{67}$ | 1,673,507 | $\frac{31}{67}$ | 100,178 | $\frac{334}{897}$ | 5,975 | $\frac{425}{897}$ | 99,821 | $\frac{4247}{4,493}$ | 5,964 | $\frac{3,748}{4,493}$ |
| 66 | 1,651,515 | $\frac{5}{33}$ | 1,648,484 | $\frac{28}{33}$ | 100,183 | $\frac{14}{17}$ | 6,066 | $\frac{3}{17}$ | 99,816 | $\frac{56}{109}$ | 6,055 | $\frac{5}{109}$ |
| 65 | 1,626,538 | $\frac{6}{13}$ | 1,623,461 | $\frac{7}{13}$ | 100,189 | $\frac{2,231}{4,221}$ | 6,159 | $\frac{2,861}{4,221}$ | 99,810 | $\frac{3,510}{4,229}$ | 6,148 | $\frac{108}{4,229}$ |
| 64 | 1,601,562 | $\frac{1}{2}$ | 1,598,437 | $\frac{1}{2}$ | 100,195 | $\frac{515}{1,023}$ | 6,256 | $\frac{112}{1,023}$ | 99,804 | $\frac{36}{41}$ | 6,243 | $\frac{37}{41}$ |
| 63 | 1,576,587 | $\frac{19}{63}$ | 1,573,412 | $\frac{44}{63}$ | 100,201 | $\frac{607}{793}$ | 6,355 | $\frac{485}{793}$ | 99,798 | $\frac{2,546}{3,973}$ | 6,342 | $\frac{3,234}{3,973}$ |
| 62 | 1,551,612 | $\frac{28}{31}$ | 1,548,387 | $\frac{3}{31}$ | 100,208 | $\frac{1}{3}$ | 6,458 | $\frac{1}{3}$ | 99,792 | $\frac{48}{481}$ | 6,444 | $\frac{436}{481}$ |
| 61 | 1,526,639 | $\frac{21}{61}$ | 1,523,360 | $\frac{40}{61}$ | 100,215 | $\frac{845}{3,717}$ | 6,564 | $\frac{1,612}{3,717}$ | 99,785 | $\frac{35}{149}$ | 6,550 | $\frac{50}{149}$ |
| 60 | 1,501,666 | $\frac{2}{3}$ | 1,498,333 | $\frac{1}{3}$ | 100,222 | $\frac{422}{899}$ | 6,674 | $\frac{74}{899}$ | 99,778 | $\frac{22}{901}$ | 6,659 | $\frac{241}{901}$ |
| 59 | 1,476,694 | $\frac{54}{59}$ | 1,473,305 | $\frac{5}{59}$ | 100,230 | $\frac{290}{3,477}$ | 6,787 | $\frac{1,601}{3,477}$ | 99,770 | $\frac{310}{697}$ | 6,771 | $\frac{613}{697}$ |
| 58 | 1,451,724 | $\frac{4}{29}$ | 1,448,275 | $\frac{25}{29}$ | 100,238 | $\frac{2}{21}$ | 6,904 | $\frac{16}{21}$ | 99,762 | $\frac{198}{421}$ | 6,888 | $\frac{152}{421}$ |
| 57 | 1,426,754 | $\frac{22}{57}$ | 1,423,245 | $\frac{35}{57}$ | 100,246 | $\frac{346}{649}$ | 7,026 | $\frac{126}{649}$ | 99,754 | $\frac{238}{3,253}$ | 7,008 | $\frac{2,976}{3,253}$ |
| 56 | 1,401,785 | $\frac{5}{7}$ | 1,398,214 | $\frac{2}{7}$ | 100,255 | $\frac{335}{783}$ | 7,151 | $\frac{767}{783}$ | 99,745 | $\frac{35}{157}$ | 7,133 | $\frac{119}{157}$ |
| 55 | 1,376,818 | $\frac{2}{11}$ | 1,373,181 | $\frac{9}{11}$ | 100,264 | $\frac{2,456}{3,021}$ | 7,282 | $\frac{1,078}{3,021}$ | 99,735 | $\frac{2,685}{3,029}$ | 7,263 | $\frac{373}{3,029}$ |
| 54 | 1,351,851 | $\frac{23}{27}$ | 1,348,148 | $\frac{4}{27}$ | 100,274 | $\frac{66}{91}$ | 7,417 | $\frac{53}{91}$ | 99,726 | $\frac{2}{73}$ | 7,397 | $\frac{19}{73}$ |
| 53 | 1,326,886 | $\frac{42}{53}$ | 1,323,113 | $\frac{11}{53}$ | 100,285 | $\frac{115}{561}$ | 7,557 | $\frac{523}{561}$ | 99,715 | $\frac{1,705}{2,813}$ | 7,536 | $\frac{1,232}{2,813}$ |
| 52 | 1,301,923 | $\frac{1}{13}$ | 1,298,076 | $\frac{12}{13}$ | 100,296 | $\frac{8}{27}$ | 7,703 | $\frac{19}{27}$ | 99,704 | $\frac{392}{677}$ | 7,680 | $\frac{640}{677}$ |
| 51 | 1,276,960 | $\frac{40}{51}$ | 1,273,039 | $\frac{11}{51}$ | 100,308 | $\frac{124}{2,597}$ | 7,855 | $\frac{565}{2,597}$ | 99,692 | $\frac{468}{521}$ | 7,831 | $\frac{49}{521}$ |
| 50 | 1,252,000 | | 1,248,000 | | 100,320 | $\frac{20}{39}$ | 8,012 | $\frac{32}{39}$ | 99,680 | $\frac{160}{313}$ | 7,987 | $\frac{69}{313}$ |
| 49 | 1,227,040 | $\frac{40}{49}$ | 1,222,959 | $\frac{9}{49}$ | 100,333 | $\frac{1,799}{2,397}$ | 8,176 | $\frac{2,128}{2,397}$ | 99,667 | $\frac{173}{481}$ | 8,149 | $\frac{331}{481}$ |
| 48 | 1,202,083 | $\frac{1}{3}$ | 1,197,916 | $\frac{2}{3}$ | 100,347 | $\frac{19}{23}$ | 8,347 | $\frac{19}{23}$ | 99,653 | $\frac{219}{577}$ | 8,318 | $\frac{514}{577}$ |
| 47 | 1,177,127 | $\frac{31}{47}$ | 1,172,872 | $\frac{16}{47}$ | 100,362 | $\frac{358}{441}$ | 8,526 | $\frac{34}{441}$ | 99,638 | $\frac{1,106}{2,213}$ | 8,495 | $\frac{565}{2,213}$ |
| 46 | 1,152,173 | $\frac{21}{23}$ | 1,147,826 | $\frac{2}{23}$ | 100,378 | $\frac{26}{33}$ | 8,712 | $\frac{4}{33}$ | 99,622 | $\frac{34}{53}$ | 8,679 | $\frac{13}{53}$ |
| 45 | 1,127,222 | $\frac{2}{9}$ | 1,122,777 | $\frac{7}{9}$ | 100,395 | $\frac{1,705}{2,021}$ | 8,906 | $\frac{974}{2,021}$ | 99,605 | $\frac{1,455}{2,029}$ | 8,871 | $\frac{741}{2,029}$ |
| 44 | 1,102,272 | $\frac{8}{11}$ | 1,097,727 | $\frac{3}{11}$ | 100,414 | $\frac{38}{483}$ | 9,109 | $\frac{353}{483}$ | 99,587 | $\frac{61}{97}$ | 9,072 | $\frac{16}{97}$ |
| 43 | 1,077,325 | $\frac{25}{43}$ | 1,072,674 | $\frac{18}{43}$ | 100,433 | $\frac{223}{369}$ | 9,322 | $\frac{182}{369}$ | 99,568 | $\frac{496}{1,853}$ | 9,282 | $\frac{454}{1,853}$ |
| 42 | 1,052,380 | $\frac{20}{21}$ | 1,047,619 | $\frac{1}{21}$ | 100,454 | $\frac{6}{11}$ | 9,545 | $\frac{5}{11}$ | 99,547 | $\frac{113}{221}$ | 9,502 | $\frac{58}{221}$ |
| 41 | 1,027,439 | $\frac{1}{41}$ | 1,022,560 | $\frac{40}{41}$ | 100,477 | $\frac{71}{1,677}$ | 9,779 | $\frac{617}{1,677}$ | 99,525 | $\frac{75}{337}$ | 9,732 | $\frac{316}{337}$ |
| 40 | 1,002,500 | | 997,500 | | 100,501 | $\frac{101}{399}$ | 10,025 | $\frac{25}{399}$ | 99,501 | $\frac{99}{401}$ | 9,975 | $\frac{25}{401}$ |
| 39 | 977,564 | $\frac{4}{39}$ | 972,435 | $\frac{35}{39}$ | 100,527 | $\frac{541}{1,517}$ | 10,283 | $\frac{689}{1,517}$ | 99,475 | $\frac{25}{61}$ | 10,229 | $\frac{31}{61}$ |
| 38 | 952,631 | $\frac{11}{19}$ | 947,368 | $\frac{8}{19}$ | 100,555 | $\frac{5}{9}$ | 10,555 | $\frac{5}{9}$ | 99,447 | $\frac{93}{181}$ | 10,497 | $\frac{43}{181}$ |
| 37 | 927,702 | $\frac{26}{37}$ | 922,297 | $\frac{11}{37}$ | 100,586 | $\frac{22}{273}$ | 10,842 | $\frac{134}{273}$ | 99,417 | $\frac{459}{1,373}$ | 10,779 | $\frac{433}{1,373}$ |
| 36 | 902,777 | $\frac{7}{9}$ | 897,222 | $\frac{2}{9}$ | 100,619 | $\frac{63}{323}$ | 11,145 | $\frac{165}{323}$ | 99,384 | $\frac{8}{13}$ | 11,076 | $\frac{12}{13}$ |
| 35 | 877,857 | $\frac{1}{7}$ | 872,142 | $\frac{6}{7}$ | 100,655 | $\frac{245}{1,221}$ | 11,466 | $\frac{14}{1,221}$ | 99,349 | $\frac{79}{1,229}$ | 11,391 | $\frac{461}{1,229}$ |
| Numeri primi Baseos | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | |
| | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | | 100,000 | |
| | | | Basis | | | | Perpendicularum | | | | Hypotenusa | |

Viète's *Canon mathematicus* : *Canonion triangulorum* (1579) (reconstruction, D. Roegel, 2011)

| LATERVM RATIONALIVM | | | | | | | | | | | | 45 |
|---------------------|---------------------|------------------------|--------------------|---------------|-------------------|-------------------|-------------------|------------------------|-----------------|-------------------|-----------------|---------------------|
| SERIES I. | | | | SERIES II. | | | | SERIES III. | | | | |
| 11,724 | $\frac{4}{29}$ | 99,310 | $\frac{10}{29}$ | 11,805 | $\frac{5}{9}$ | 100,694 | $\frac{4}{9}$ | 847,058 | $\frac{14}{17}$ | 852,941 | $\frac{3}{17}$ | 34 |
| 12,076 | $\frac{932}{1,093}$ | 99,268 | $\frac{76}{1,093}$ | 12,165 | $\frac{195}{217}$ | 100,737 | $\frac{71}{217}$ | 821,969 | $\frac{23}{33}$ | 828,030 | $\frac{10}{33}$ | 33 |
| 12,451 | $\frac{93}{257}$ | 99,221 | $\frac{203}{257}$ | 12,549 | $\frac{1}{51}$ | 100,784 | $\frac{16}{51}$ | 796,875 | | 803,125 | | 32 |
| 12,849 | $\frac{143}{193}$ | 99,170 | $\frac{190}{193}$ | 12,957 | $\frac{151}{957}$ | 100,835 | $\frac{905}{957}$ | 771,774 | $\frac{6}{31}$ | 778,225 | $\frac{25}{31}$ | 31 |
| 13,274 | $\frac{38}{113}$ | 99,115 | $\frac{5}{113}$ | 13,392 | $\frac{6}{7}$ | 100,892 | $\frac{6}{7}$ | 746,666 | $\frac{2}{3}$ | 753,333 | $\frac{1}{3}$ | 30 |
| 13,727 | $\frac{137}{169}$ | 99,053 | $\frac{43}{169}$ | 13,859 | $\frac{17}{837}$ | 100,955 | $\frac{665}{837}$ | 721,551 | $\frac{21}{29}$ | 728,448 | $\frac{8}{29}$ | 29 |
| 14,213 | $\frac{39}{197}$ | 98,984 | $\frac{152}{197}$ | 14,358 | $\frac{38}{39}$ | 101,025 | $\frac{25}{39}$ | 696,428 | $\frac{4}{7}$ | 703,571 | $\frac{3}{7}$ | 28 |
| 14,733 | $\frac{711}{733}$ | 98,908 | $\frac{436}{733}$ | 14,896 | $\frac{16}{29}$ | 101,103 | $\frac{13}{29}$ | 671,296 | $\frac{8}{27}$ | 678,703 | $\frac{19}{27}$ | 27 |
| 15,294 | $\frac{2}{17}$ | 98,823 | $\frac{9}{17}$ | 15,476 | $\frac{4}{21}$ | 101,190 | $\frac{10}{21}$ | 646,153 | $\frac{11}{13}$ | 653,846 | $\frac{2}{13}$ | 26 |
| 15,898 | $\frac{158}{629}$ | 98,728 | $\frac{88}{629}$ | 16,103 | $\frac{37}{621}$ | 101,288 | $\frac{152}{621}$ | 621,000 | | 629,000 | | 25 |
| 16,551 | $\frac{21}{29}$ | 98,620 | $\frac{20}{29}$ | 16,783 | $\frac{31}{143}$ | 101,398 | $\frac{86}{143}$ | 595,833 | $\frac{1}{3}$ | 604,166 | $\frac{2}{3}$ | 24 |
| 17,260 | $\frac{420}{533}$ | 98,499 | $\frac{33}{533}$ | 17,523 | $\frac{17}{21}$ | 101,523 | $\frac{17}{21}$ | 570,652 | $\frac{4}{23}$ | 579,347 | $\frac{19}{23}$ | 23 |
| 18,032 | $\frac{48}{61}$ | 98,360 | $\frac{40}{61}$ | 18,333 | $\frac{1}{3}$ | 101,666 | $\frac{2}{3}$ | 545,454 | $\frac{6}{11}$ | 554,545 | $\frac{5}{11}$ | 22 |
| 18,876 | $\frac{36}{89}$ | 98,202 | $\frac{22}{89}$ | 19,221 | $\frac{423}{437}$ | 101,830 | $\frac{290}{437}$ | 520,238 | $\frac{2}{21}$ | 529,761 | $\frac{19}{21}$ | 21 |
| 19,801 | $\frac{99}{101}$ | 98,019 | $\frac{81}{101}$ | 20,202 | $\frac{2}{99}$ | 102,020 | $\frac{20}{99}$ | 495,000 | | 505,000 | | 20 |
| 20,821 | $\frac{67}{73}$ | 97,808 | $\frac{16}{73}$ | 21,288 | $\frac{184}{357}$ | 102,240 | $\frac{320}{357}$ | 469,736 | $\frac{16}{19}$ | 480,263 | $\frac{3}{19}$ | 19 |
| 21,951 | $\frac{9}{41}$ | 97,560 | $\frac{40}{41}$ | 22,500 | | 102,500 | | 444,444 | $\frac{4}{9}$ | 455,555 | $\frac{5}{9}$ | 18 |
| 23,208 | $\frac{56}{293}$ | 97,269 | $\frac{183}{293}$ | 23,859 | $\frac{37}{57}$ | 102,807 | $\frac{1}{57}$ | 419,117 | $\frac{11}{17}$ | 430,882 | $\frac{6}{17}$ | 17 |
| 24,615 | $\frac{5}{13}$ | 96,923 | $\frac{1}{13}$ | 25,396 | $\frac{52}{63}$ | 103,174 | $\frac{38}{63}$ | 393,750 | | 406,250 | | 16 |
| 26,200 | $\frac{200}{229}$ | 96,506 | $\frac{126}{229}$ | 27,149 | $\frac{71}{221}$ | 103,619 | $\frac{201}{221}$ | 368,333 | $\frac{1}{3}$ | 381,666 | $\frac{2}{3}$ | 15 |
| 28,000 | | 96,000 | | 29,166 | $\frac{2}{3}$ | 104,166 | $\frac{2}{3}$ | 342,857 | $\frac{1}{7}$ | 357,142 | $\frac{6}{7}$ | 14 |
| 30,957 | $\frac{139}{173}$ | 95,375 | $\frac{125}{173}$ | 31,515 | $\frac{5}{33}$ | 104,848 | $\frac{16}{33}$ | 317,307 | $\frac{9}{13}$ | 332,692 | $\frac{4}{13}$ | 13 |
| 32,432 | $\frac{16}{37}$ | 94,594 | $\frac{22}{37}$ | 34,285 | $\frac{5}{7}$ | 105,714 | $\frac{2}{7}$ | 291,666 | $\frac{2}{3}$ | 308,333 | $\frac{1}{3}$ | 12 |
| 35,200 | | 93,600 | | 37,606 | $\frac{98}{117}$ | 106,837 | $\frac{71}{117}$ | 265,909 | $\frac{1}{11}$ | 284,090 | $\frac{10}{11}$ | 11 |
| 38,461 | $\frac{7}{13}$ | 92,307 | $\frac{9}{13}$ | 41,666 | $\frac{2}{3}$ | 108,333 | $\frac{1}{3}$ | 240,000 | | 260,000 | | 10 |
| 42,352 | $\frac{16}{17}$ | 90,588 | $\frac{4}{17}$ | 46,753 | $\frac{19}{77}$ | 110,389 | $\frac{47}{77}$ | 213,888 | $\frac{8}{9}$ | 236,111 | $\frac{1}{9}$ | 9 |
| 47,058 | $\frac{14}{17}$ | 88,235 | $\frac{5}{17}$ | 53,333 | $\frac{1}{3}$ | 113,333 | $\frac{1}{3}$ | 187,500 | | 212,500 | | 8 |
| 52,830 | $\frac{10}{53}$ | 84,905 | $\frac{35}{53}$ | 62,222 | $\frac{2}{9}$ | 117,777 | $\frac{7}{9}$ | 160,714 | $\frac{2}{7}$ | 189,285 | $\frac{5}{7}$ | 7 |
| 60,000 | | 80,000 | | 75,000 | | 125,000 | | 133,333 | $\frac{1}{3}$ | 166,666 | $\frac{2}{3}$ | 6 |
| 68,965 | $\frac{15}{29}$ | 72,413 | $\frac{23}{29}$ | 95,238 | $\frac{2}{21}$ | 138,095 | $\frac{5}{21}$ | 105,000 | | 145,000 | | 5 |
| 80,000 | | 60,000 | | 133,333 | $\frac{1}{3}$ | 166,666 | $\frac{2}{3}$ | 75,000 | | 125,000 | | 4 |
| 92,307 | $\frac{9}{13}$ | 38,461 | $\frac{7}{13}$ | 240,000 | | 260,000 | | 41,666 | $\frac{2}{3}$ | 108,333 | $\frac{1}{3}$ | 3 |
| 100,000 | | ♦ | | ♦ | | ♦ | | ♦ | | 100,000 | | 2 |
| ♦ | | ♦ | | ♦ | | ♦ | | ♦ | | ♦ | | 1 |
| <i>Basis</i> | | <i>Perpendicularum</i> | | <i>Basis</i> | | <i>Hypotenusa</i> | | <i>Perpendicularum</i> | | <i>Hypotenusa</i> | | Numeri primi Baseos |
| | | 100,000 | | | | 100,000 | | | | 100,000 | | |
| | | Hypotenusa | | | | Perpendicularum | | | | Basis | | |