2.25 Sovella edellisen tehtävän menetelmää ja esitä murtolukumuodossa jaksollinen desimaaliluku

a) 2,013013013…

b) –0,414141…

c) 4,999…

a) $a = 2{,}013013\ldots$

$$\begin{array}{rl} & 1000a = 2013{,}013013\ldots \\ - & \quad a = \quad 2{,}013013\ldots \\ \hline & 999a = 2011 \;\|:999 \end{array}$$

$$a = \frac{2011}{999}$$

c) $10a = 49{,}999\ldots$

$$\begin{array}{rl} - & \quad a = 4{,}999\ldots \\ \hline & 9a = 45 \;\|:9 \end{array}$$

$$a = 5 \left(= \frac{5}{1}\right)$$

2.22 Laske ilman laskinta.

CAS

a) $\frac{2}{7} \cdot \left(1\frac{1}{2} + \frac{5}{6}\right)$

b) $\left(\frac{1}{3} : \frac{3}{2}\right) : \left(\frac{2}{3} : \frac{1}{2}\right)$

c) $5\frac{1}{3} \cdot \left(-\frac{3}{4}\right) - \frac{6}{7} \cdot \left(\frac{1}{3} - \frac{1}{2}\right) = \frac{16}{3} \cdot \left(-\frac{3}{4}\right) - \frac{6}{7} \cdot \left(-\frac{1}{6}\right) = -\frac{4}{4} - \left(-\frac{1}{7}\right) =$

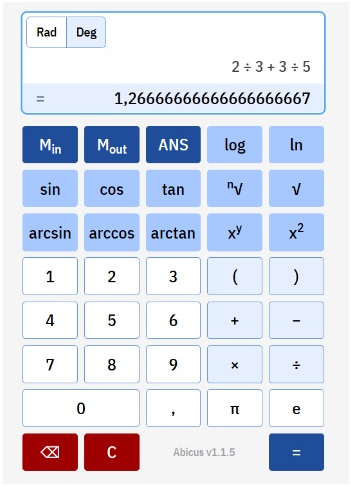
$-4 + \frac{1}{7} =$

$-\frac{28}{7} + \frac{1}{7} = -\frac{27}{7}$

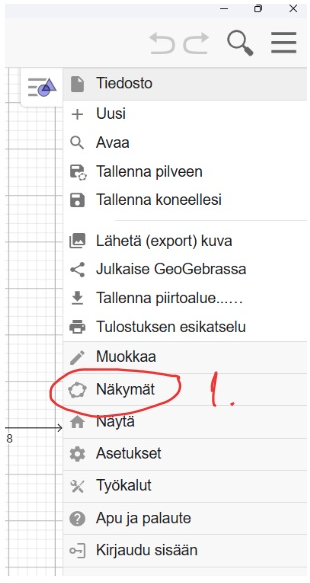
$* 5\frac{1}{3} = \frac{5 \cdot 3 + 1}{3} = \frac{16}{3}$

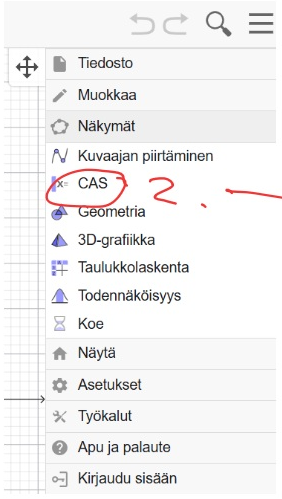
$\frac{2}{6} - \frac{3}{6} = -\frac{1}{6}$

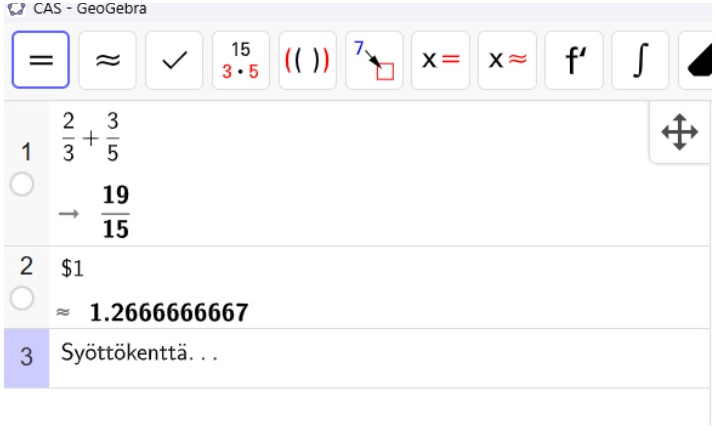
d) $\frac{5+9}{6+15} \cdot \frac{7+3}{9+7}$



ABICUS







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