

2.25 Sovella edellisen tehtävän menetelmää ja esitä murtolukumuodossa jaksollinen desimaaliluku

a) 2,013013013...

b) $-0,414141\dots$

c) 4,999...

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a) $a = 2,013013...$

$$\begin{array}{r} 1000a = 2013,013013... \\ - a = 2,013013... \\ \hline 999a = 2011 \quad || : 999 \\ a = \frac{2011}{999} \end{array}$$

$$\begin{array}{r} \rightarrow 10a = 49,999\dots \\ a = 4,999\dots \\ \hline 9a = 45 \text{ II } 9 \\ \underline{a = 5 \left(= \frac{5}{1} \right)} \end{array}$$

2.22 Laske ilman laskinta.



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

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

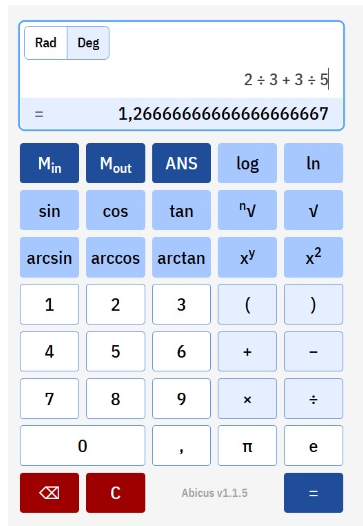
c) $5\frac{1}{3} \cdot \left(-\frac{3}{4}\right) - \frac{6}{7} \cdot \left(\frac{1}{3} - \frac{1}{2}\right) = \frac{16}{3} \cdot \left(-\frac{3}{4}\right) - \frac{6}{7} \cdot \left(-\frac{1}{6}\right) = -\frac{4}{1} - \left(-\frac{1}{7}\right) =$

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

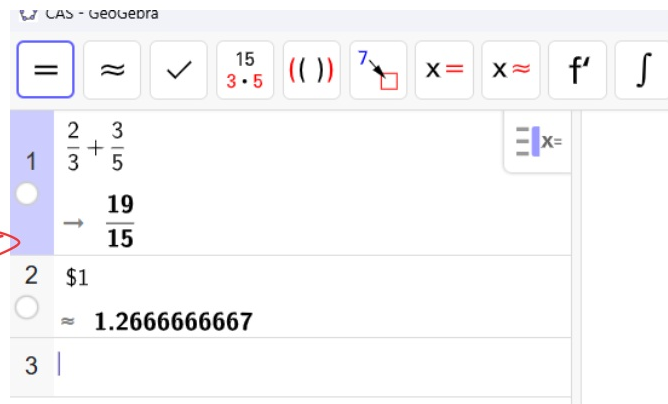
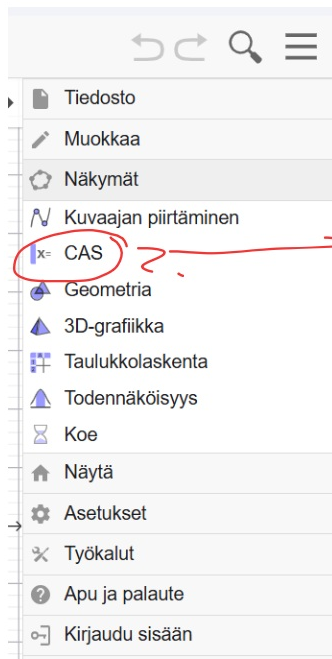
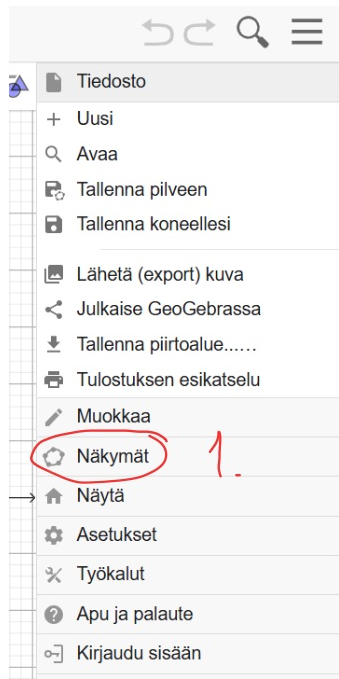
$\frac{2}{6} - \frac{3}{6} = -\frac{1}{6}$

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

$-\frac{4}{1} + \frac{1}{7} = -\frac{28}{7} + \frac{1}{7} = -\frac{27}{7}$



ABICUS



GEOGEBRA

1. arkeen yhtälö

Enm. Ratkaisu a) $5x - 4 = 9 \parallel +4$

$$5x = 13 \parallel :5$$

$$x = \frac{13}{5}$$

b) $\frac{x+2}{3} - \frac{5}{2} = 4$

$$\frac{2(x+2)}{6} - \frac{15}{6} = \frac{24}{6} \parallel \cdot 6$$

$$2(x+2) - 15 = 24$$

$$2x + 4 - 15 = 24$$

$$2x = 24 - 4 + 15$$

$$2x = 35 \parallel :2$$

$$x = \frac{35}{2}$$