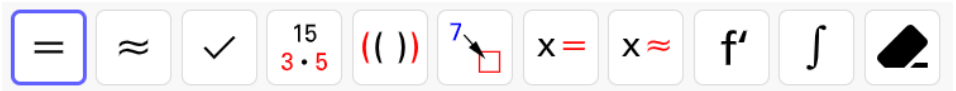
3. tunti: CAS II

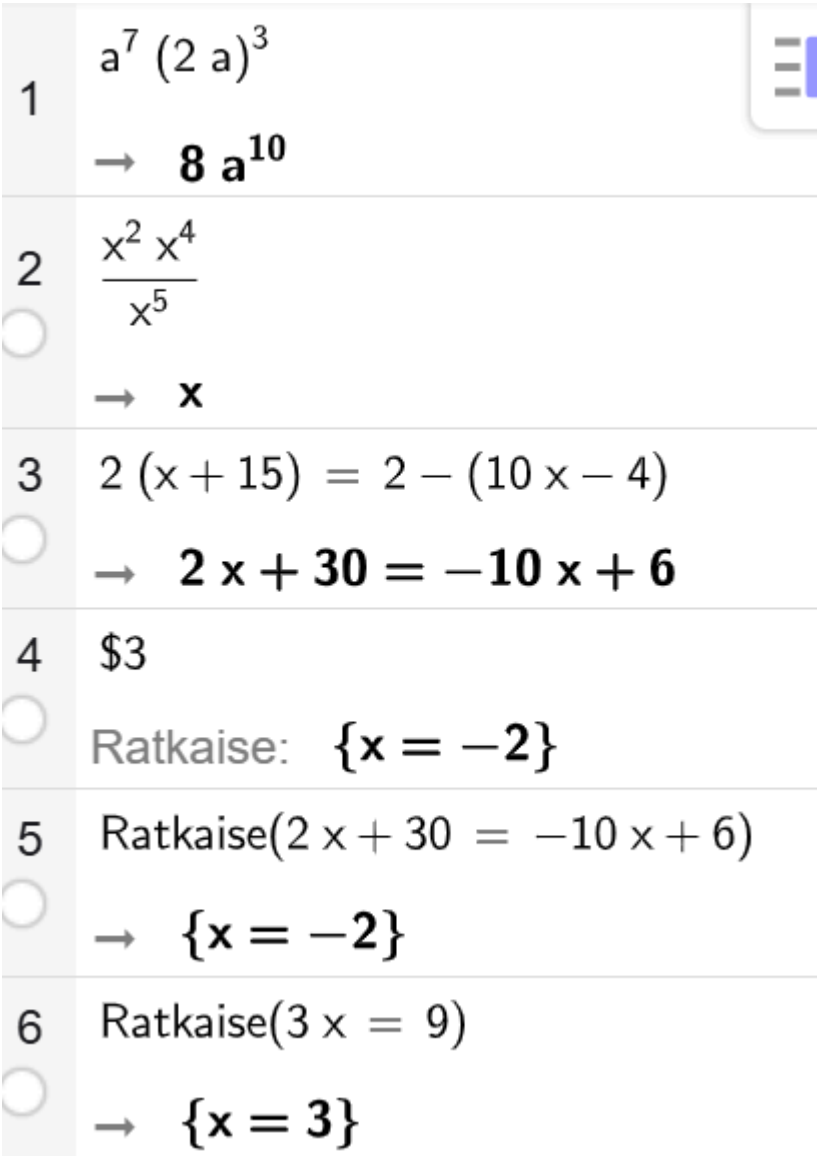
Hampurilaisvalikko -> Näytä -> CAS



Oma nimi:

Esimerkit

1



3

a)

7

$$s = v \cdot t, t$$

Ratkaise: $\left\{t = \frac{s}{v}\right\}$

8

$$\left\{t = \frac{s}{v}\right\}$$

Sijoita, s=2,v=3: $\left\{t = \frac{2}{3}\right\}$

9

$8

$\approx \{t = 0.66667\}$

b)

10

$$\{n = c \cdot V,\ m = n \cdot M\},\ \{c, n\}$$

Ratkaise:

$$\left\{\left\{c = \frac{m}{M\,V}, n = \frac{m}{M}\right\}\right\}$$

11

$$\left(\boxed{c = \frac{m}{M\,V}}\quad \boxed{n = \frac{m}{M}}\right)$$

Sijoita, M=58.44,V=0.500,m=5:

$$\left\{\left\{c = \frac{5}{58.44 \cdot 0.5}, n = \frac{5}{58.44}\right\}\right\}$$

12

$11

$\approx$

$\{\{c = 0.17112, n = 0.08556\}\}$

4

a)

1 $f(x) := 5x^2 - 4x - 3$

$\rightarrow \quad f(x) := 5x^2 - 4x - 3$

2 a)

3 $f(3)$

$\rightarrow \quad 30$

b)

5 $f(x) = 0$

$\rightarrow \quad 5x^2 - 4x - 3 = 0$

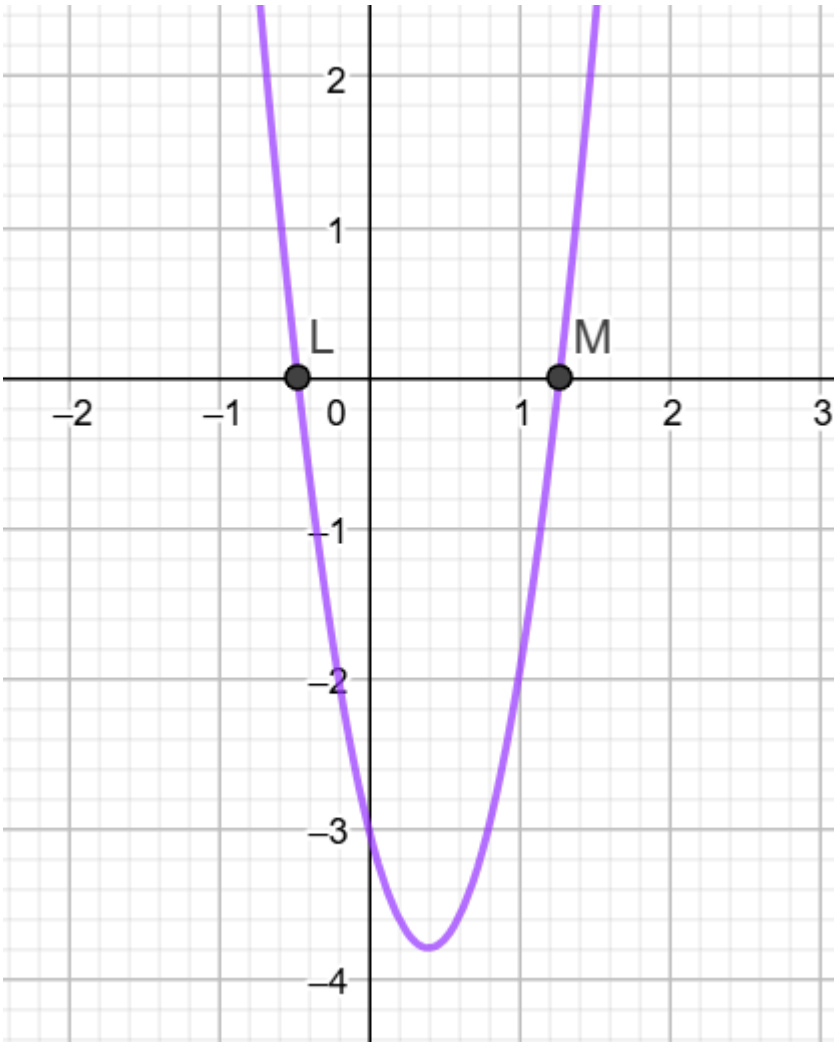
6 $9

Ratkaise: $\left\{x = \frac{-\sqrt{19} + 2}{5}, x = \frac{\sqrt{19} + 2}{5}\right\}$

7 $10

$\approx \quad \{x = -0.47178, x = 1.27178\}$

c)



d)

8

$$f(x) = -\frac{19}{5}$$

$$\rightarrow \quad \mathbf{5\,x^2 - 4\,x - 3 = \frac{-19}{5}}$$

9

$12

Ratkaise: $\left\{\mathbf{x = \frac{2}{5}}\right\}$

e)

10 Ratkaise(f(x) = 27)

$$\rightarrow \left\{x = \frac{-\sqrt{154}+2}{5}, x = \frac{\sqrt{154}+2}{5}\right\}$$

11 $14

$$\approx \{x = -2.08193, x = 2.88193\}$$

f)

12 f(x) = −10

$$\rightarrow 5x^2 - 4x - 3 = -10$$

13 $16

Ratkaise: {}

Vastaus: Ei ratkaisua.

Tehtävät

1.