

eksponenttiyhtälö $a^x = b$

esim. $0,5 \cdot 2^x - 1 = 3$

$$0,5 \cdot 2^x = 4 \quad || :0,5$$

$$2^x = 8 \quad \xrightarrow{\text{tai}}$$

$$x = \log_2 8 \quad \log(2;8) = 3$$

$$x = 3$$

$$2^x = 8$$

$$2^x = 2^3$$

$$x = 3$$

potenssiyhtälö $x^n = a$

esim. $3x^3 - 5 = 10$

$$3x^3 = 15 \quad || :3$$

$$x^3 = 5$$

$$x = \sqrt[3]{5} \quad \text{pariton}$$

$$5^{(1/3)}$$

$$= 1,70997594667669698935$$

$$x \approx 1,71$$

parillinen

$$x^4 = 5$$

$$x = \pm \sqrt[4]{5}$$

$$5^{(1/4)}$$

$$= 1,49534878122122054191$$

$$x \approx \pm 1,50$$

suosittelem:

K12

K14

K15