

kertaus eksponenttiyhtälö

$$2^x = 5$$

$$x = \log_2 5$$

$$x = \frac{\log(5) \div \log(2)}{2,32192809488736234787}$$

Potenssiyhtälö

$$x^2 = 4$$

$$x = \pm\sqrt{4}$$

$$x = \pm 2$$

$$x^3 = 8$$

$$x = \sqrt[3]{8}$$

$$x = 2$$

 $v(8; 3)$

2

log

ln

 $n\sqrt{}$ $\sqrt{}$

$$a^x = b \quad (x=1,2,3\dots)$$

- $a = \pm\sqrt[x]{b}$ x parillinen (2, 4, 6...)
 $b \geq 0$
- $a = \sqrt[x]{b}$ x pariton (3, 5, 7...)

esim.

$$3x^7 + 10 = 1$$

$$3x^7 = 1 - 10$$

$$3x^7 = -9 \quad \parallel :3$$

$$x^7 = -3$$

$$x = \sqrt[7]{-3}$$

$$x =$$

 $v(-3; 7)$

-1,16993081275868688646

$$x \approx -1,17$$

