

TOISEN ASTEEN POLYNOMIFUNKTIO

$$f(x) = ax^2 + bx + c, \quad a \neq 0$$

$$y = ax^2 + bx + c$$

paraabeli

$a > 0$ ylöspäin aukeava
 $a < 0$ alaspäin - " -

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

esim 1. (85b)

$$g(x) = -3x^2 - 6x + 9$$

$$\begin{cases} y = -3x^2 - 6x + 9 \\ y = 0 \end{cases}$$

NOLLAKOHDAT

$$-3x^2 - 6x + 9 = 0$$

$$x = \frac{-(-6) \pm \sqrt{(-6)^2 - 4 \cdot (-3) \cdot 9}}{2 \cdot (-3)}$$

$$a = -3$$

$$b = -6$$

$$c = 9$$

=

⋮

x =

tai

x =

x	y =
3	
2	83
1	85
0	89a
-1	
-2	
-3	