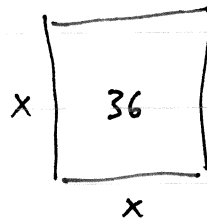


2. astien yhtälön ratkaisumidi

$$x^2 = 36 \quad | \sqrt{\quad}$$

$$x = 6$$



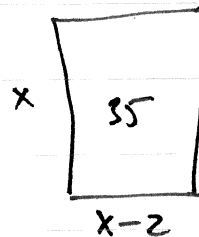
$$x(x-2) = 35$$

$$x^2 - 2x = 35 \quad | +1$$

$$x^2 - 2x + 1 = 35 + 1$$

$$(x-1)^2 = 6^2$$

$$x-1 = 6 \Rightarrow x = 7 \quad 7 \cdot 5 = 35$$



$$ax^2 + bx + c = 0 \quad | :a$$

$$x^2 + 2 \frac{b}{2a} x = -\frac{c}{a}$$

$$x^2 + 2 \frac{b}{2a} x + \left(\frac{b}{2a}\right)^2 = \left(\frac{b}{2a}\right)^2 - \frac{c}{a}$$

$$\left(x + \frac{b}{2a}\right)^2 = \frac{b^2 - 4ac}{4a^2}$$

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

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