

## pq-formeln

$$x^2 + px + q = 0$$

$$\left(x + \frac{p}{2}\right)^2 - \left(\frac{p}{2}\right)^2 + q = 0$$

$$\left(x + \frac{p}{2}\right)^2 = \left(\frac{p}{2}\right)^2 - q$$

$$x + \frac{p}{2} = \pm \sqrt{\left(\frac{p}{2}\right)^2 - q}$$

$$x = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q}$$

$$x_1 \cdot x_2 = q$$

$$x_1 + x_2 = -p$$