

$$a \left(x^2 + \frac{b}{a}x + \frac{c}{a} \right) = 0 \quad a, b, c \in \mathbb{R} \quad a \neq 0$$

$$a \left(x^2 + 2x \frac{\frac{b}{2a}}{2} + \frac{\frac{b^2}{4a^2}}{4a^2} - \frac{\frac{b^2}{4a^2}}{4a^2} + \frac{c}{a} \right) = 0$$

$$2 \cdot \frac{1}{2} = 1 \quad 0$$

$$a \left(\left(x + \frac{b}{2a} \right)^2 - \left(\frac{b^2}{4a^2} - \frac{4ac}{4a^2} \right) \right) = 0$$

$$a \left(\left(x + \frac{b}{2a} \right)^2 - \left(\sqrt{\frac{b^2 - 4ac}{4a^2}} \right)^2 \right) = 0$$

$$x^2 - y^2 = (x+y)(x-y)$$

$$a \cdot \left(\underbrace{x + \frac{b}{2a}}_X - \underbrace{\frac{\sqrt{b^2 - 4ac}}{2a}}_Y \right) \cdot \left(\underbrace{x + \frac{b}{2a}}_X + \underbrace{\frac{\sqrt{b^2 - 4ac}}{2a}}_Y \right) = 0$$

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

$$\alpha - \beta - \gamma = 0$$

$$\alpha = 0 \quad \beta = 0 \quad \gamma = 0$$

$$a \cdot \left(x - \left(\frac{-b + \sqrt{b^2 - 4ac}}{2a} \right) \right) \left(x - \left(\frac{-b - \sqrt{b^2 - 4ac}}{2a} \right) \right) = 0$$

$$\sqrt{\frac{A}{B}} = \frac{\sqrt{A}}{\sqrt{B}}$$

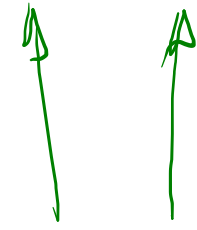
$$\sqrt{\frac{b^2 - 4ac}{4a^2}} =$$

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

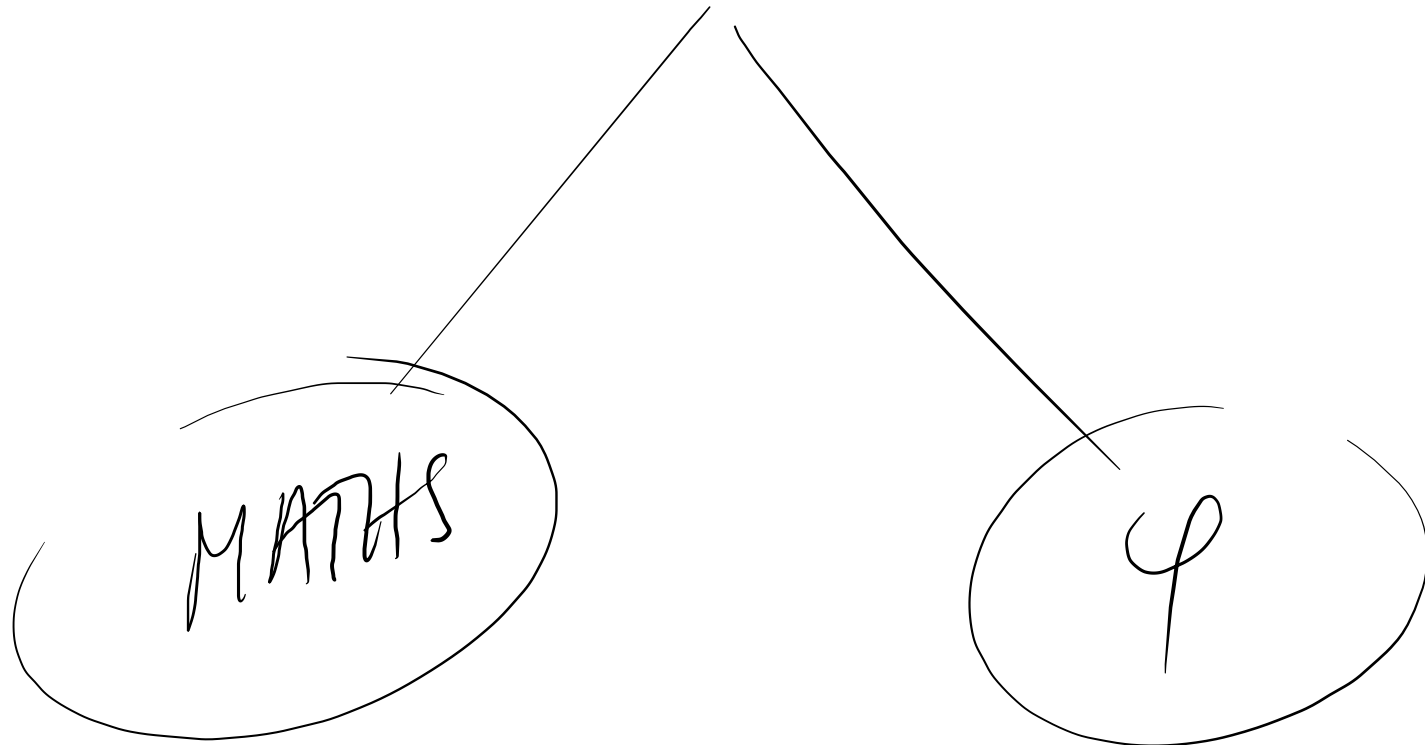
$$\frac{\sqrt{b^2 - 4ac}}{2a}$$

OS

map (m; φ)



zu multiplizieren



4/g

5/g