

Quadratische Gleichungen Aufgabe 40

$$7x^2 + 9x = 100$$

$$7x^2 + 9x = 100 \quad | -100$$

$$7x^2 + 9x - 100 = 0$$

$$A = 7 ; B = 9 ; C = -100$$

$$x_{1,2} = \frac{-9 \pm \sqrt{9^2 - 4 * 7 * (-100)}}{2 * 7}$$

$$x_{1,2} = \frac{-9 \pm \sqrt{81 + 2800}}{14}$$

$$x_{1,2} = \frac{-9 \pm \sqrt{2881}}{14}$$

$$x_{1,2} = \frac{-9 \pm 53,7}{14}$$

$$x_1 = \frac{-62,7}{14} = -4,68$$

$$x_2 = \frac{44,7}{14} = 3,19$$