

Logaritmická rovnice C3

$$3) \quad \log\left(x + \frac{1}{2}\right) = \log \frac{1}{2} - \log x \quad D: x > 0 \wedge x > -\frac{1}{2}$$

$$D = (0; +\infty)$$

$$\log\left(x + \frac{1}{2}\right) = \log \frac{\frac{1}{2}}{x}$$

$$x + \frac{1}{2} = \frac{\frac{1}{2}}{x}$$

$$2x^2 + x - 1 = 0$$

$$D = b^2 - 4ac = 9$$

$$x_{1,2} = \frac{-b \pm \sqrt{D}}{2a} = \frac{-1 \pm 3}{4}$$

$$x_1 = \frac{1}{2}$$

$$x_2 = -1$$

nevyhovuje

$$P = \left\{ \frac{1}{2} \right\}$$

[zpět](#)