

$$x^2 - 1 = 0$$

$$\begin{aligned} x &= \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \\ &= \frac{0 \pm \sqrt{0 - 4 \cdot 1 \cdot (-1)}}{2 \cdot 1} = \\ &= \frac{0 \pm \sqrt{4}}{2} = x = \frac{\pm 2}{2} = \{1 \end{aligned}$$