

Quadratic Equation Solver

Input quadratic equation

$$\underbrace{1}_{a} x^2 + \underbrace{-1}_{b} x + \underbrace{-1}_{c} = 0$$

Extract a,b and c variables

$$\begin{aligned} a &= 1 \\ b &= -1 \\ c &= -1 \end{aligned}$$

Apply quadratic equation

$\begin{aligned} x_1 &= 1.618033989 \\ x_2 &= -0.618033989 \end{aligned}$

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