

Use the Quadratic Formula,  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ , with  $a = 1$ ,  $b = 3$ , and  $c = 1$ :

$$x = \frac{-3 \pm \sqrt{3^2 - 4(1)(1)}}{2 \cdot 1} = \frac{-3 \pm \sqrt{9 - 4}}{2} = \frac{-3 \pm \sqrt{5}}{2} = -\frac{3}{2} \pm \frac{\sqrt{5}}{2}$$