

Correct. Rewrite in standard form by subtracting $4x + 15$ from both sides: $x^2 + 2x - 15 = 0$

Use the Quadratic Formula, $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$, with $a = 1$, $b = 2$, and $c = -15$:

$$x = \frac{-2 \pm \sqrt{2^2 - 4(1)(-15)}}{2 \cdot 1} = \frac{-2 \pm \sqrt{4 + 60}}{2} = \frac{-2 \pm \sqrt{64}}{2} = \frac{-2 \pm 8}{2}$$

$$\text{So } x = \frac{-2 + 8}{2} = \frac{6}{2} = 3 \text{ or } x = \frac{-2 - 8}{2} = \frac{-10}{2} = -5$$