Solve by Sq Rt WS

Which quadratic equation would you rather solve?? (neither is not a choice)

$$x^2 - 8x + 16 = 9$$

$$(x-4)^2 = 9$$

Goal for today: turn standard form quadratic equation into an equation that can be solved using the square root.
This is called "Completing the Square"

Solve:

$$x^2 + 10x + 7 = 0$$

$$(x+4)^2 =$$

$$(x-7)^2 =$$

$$(x+5)^2 =$$

$$(x-11)^2 =$$

$$x^2 + 12x + 36 =$$

$$x^2 - 20x + 100 =$$

$$x^2 + 18x + 81 =$$

$$x^2 + 16x + ? =$$

$$x^2 - 8x + ? =$$

$$x^2 + 24x + ? =$$

$$x^2 - 10x + ? =$$

$$x^2 - 5x + ?$$

Is $x^2 + 10x + 25$ a perfect square trinomial?

Is $x^2 + 14x + 49$ a perfect square trinomial?

Is $x^2 - 12x + 30$ a perfect square trinomial?

$$x^2 - 12x + 36 = 25$$

$$x^2 - 6x + 2 = 42$$

Math Practice:

p260(3-48m3,58,63,64)