

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





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

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:

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

$$(x+4)^{2} = (x-7)^{2} = (x+5)^{2} = (x-11)^{2} = (x-11)^{2}$$

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

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

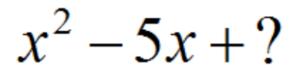
$$x^{2} + 18x + 81 =$$

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

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

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

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



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)