

Warm Up

Solve each quadratic using any method.

$$1. 3x^3 - 27x^2 = 0$$

$$4. 5x^2 + 100 = 0$$

$$2. x^2 - 14 = -5x$$

$$5. -x^2 + 5x - 7 = 0$$

Method 4: Complete the Square

$$1. x^2 + 2x + \underline{\hspace{2cm}}$$

$$2. x^2 + 4x + \underline{\hspace{2cm}}$$

$$3. x^2 + 6x + \underline{\hspace{2cm}}$$

$$4. x^2 + 10x + \underline{\hspace{2cm}}$$

Completing the Square

Example 1: Solve by completing the square

$$2x^2 - 20x + 14 = 0$$

Example 3: Solve by CtSq, give an exact answer

a. $x^2 - 8x + 36 = 0$

b. $2x^2 - 4x - 6 = 0$