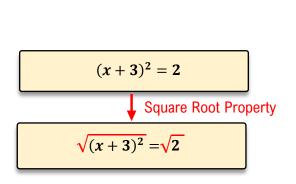
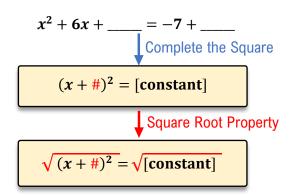
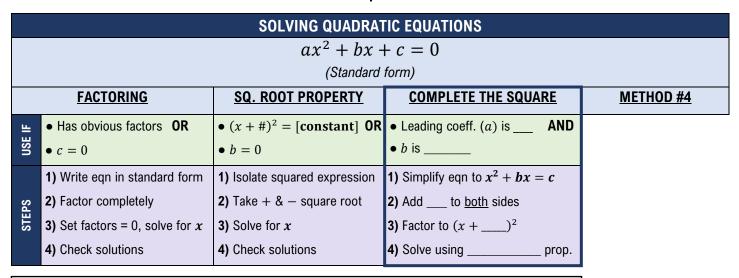
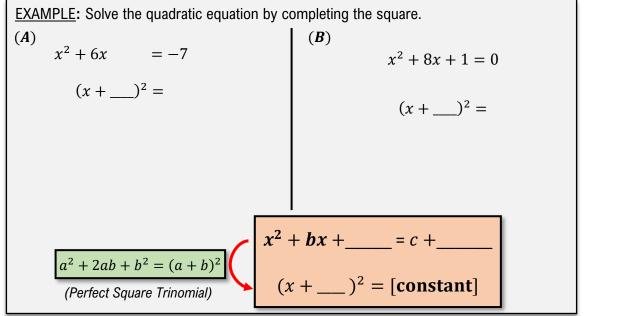
## **TOPIC: COMPLETING THE SQUARE**

• If a quadratic isn't in the form  $(x + \#)^2 = [$ constant], you can put it in that form by completing the square.









## **TOPIC: COMPLETING THE SQUARE**

PRACTICE: Solve the given quadratic equation by completing the square.

$$x^2 + 3x - 5 = 0$$

## **COMPLETE THE SQUARE**

- 1) Simplify eqn to  $x^2 + bx = c$
- **2)** +  $\left(\frac{b}{2}\right)^2$  to both sides
- **3)** Factor to  $\left(x + \frac{b}{2}\right)^2$
- 4) Solve using sqrt. prop.

PRACTICE: Solve the given quadratic equation by completing the square.

$$3x^2 - 6x - 9 = 0$$