

Solve by taking the square root.

1. $(x - 5)^2 = 27$

2. $2(x + 1)^2 - 3 = 17$

Complete the square to form a perfect square trinomial and then **factor** the trinomial.

3. $x^2 - 3x$

4. $x^2 - 10x$

Solve by completing the square.

5. $x^2 - 2x - 1 = 0$

6. $x^2 - 6x + 6 = 0$

7. $2x^2 - 4x - 8 = 0$

8. $3x^2 - 12x = 3$

Solve by completing the square.

9. $2x^2 - 6x = 21$

10. $5x^2 + 25x = -15$

Word Problem.

11. A rectangular deck has an area of 320 ft^2 . The length of the deck is 4 feet longer than the width. Find the dimensions of the deck. Solve by completing the square.