

**1. Section 11.1: Solving Quadratic Equations by the Square Root Property**

(a)  $x^2 = 25$

(b)  $x^2 = 8$

(c)  $(x - 3)^2 = 4$

(d)  $(3x - 1)^2 = 25$

(e)  $(x + 6)^2 + 1 = 0$

(f)  $(2x + 5)^2 - 9 = 0$

**2. Section 11.2: Solving Quadratic Equations by Completing the Square**

Complete the square by adding a suitable number. How does your new expression factor?

(a)  $x^2 - 6x$

(b)  $x^2 + 8x$

Solve the following equations by completing the square:

(c)  $x^2 + 3x = 28$

(d)  $2x^2 + 4x + 5 = 0$

**3. Section 11.3: Solving Quadratic Equations by the Quadratic Formula**

Solve the following equations using the quadratic formula:

(a)  $4x(x - 1) = -1$

(b)  $(x + 1)(x - 7) = 1$