

## Solving by Completing the Square

Solve each quadratic equation by completing the square.

1 
$$x^2 + 14x - 51 = 0$$

$$2 x^2 + 8x + 7 = 0$$

$$x^2 - 5x - 24 = 0$$

[4] 
$$x^2 - 2x - 3 = 0$$

$$5$$
  $x^2 + 14x - 15 = 0$ 

$$\boxed{6} \quad 5x^2 = 60 - 20x$$

$$7 \quad 4x^2 - 8x + 1 = 0$$

$$8 x^2 - 4x - 91 = 7$$

## Solving by Completing the Square

**Answers** 

$$1 \quad x^2 + 14x - 51 = 0$$

$$2 x^2 + 8x + 7 = 0$$

$$|x^2 - 5x - 24| = 0$$

$$4 \quad x^2 - 2x - 3 = 0$$

$$5$$
  $x^2 + 14x - 15 = 0$ 

$$7 4x^2 - 8x + 1 = 0$$

$$\left(1 + \frac{\sqrt{3}}{2}, 1 - \frac{\sqrt{3}}{2}\right)$$

$$(2 + \sqrt{102}, 2 - \sqrt{102})$$