

**Solve each equation by completing the square.**

1)  $n^2 + 8n - 60 = 0$

2)  $b^2 - 18b + 80 = 0$

3)  $n^2 + 14n + 45 = 0$

4)  $x^2 + 14x + 11 = 0$

**Solve each equation with the quadratic formula.**

5)  $2b^2 = 9b + 95$

6)  $b^2 + 6b = 14$

7)  $5x^2 + 2x = -10$

8)  $4r^2 = 7r + 6$

Solve each equation by completing the square.

1)  $n^2 + 8n - 60 = 0$

$$\{-4 + 2\sqrt{19}, -4 - 2\sqrt{19}\}$$

2)  $b^2 - 18b + 80 = 0$

$$\{10, 8\}$$

3)  $n^2 + 14n + 45 = 0$

$$\{-5, -9\}$$

4)  $x^2 + 14x + 11 = 0$

$$\{-7 + \sqrt{38}, -7 - \sqrt{38}\}$$

Solve each equation with the quadratic formula.

5)  $2b^2 = 9b + 95$

$$\left\{\frac{19}{2}, -5\right\}$$

6)  $b^2 + 6b = 14$

$$\{-3 + \sqrt{23}, -3 - \sqrt{23}\}$$

7)  $5x^2 + 2x = -10$

$$\left\{\frac{-1 + 7i}{5}, \frac{-1 - 7i}{5}\right\}$$

8)  $4r^2 = 7r + 6$

$$\left\{\frac{7 + \sqrt{145}}{8}, \frac{7 - \sqrt{145}}{8}\right\}$$