

## 17.5 Homework

Date \_\_\_\_\_ Period \_\_\_\_\_

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

1)  $x^2 - 10x + 25 = 7$

**Solve each equation by factoring.**

2)  $4b^2 - 1 = -3b$

3)  $7k^2 + 56 = 57k$

4)  $35k^2 - 36k = 32$

5)  $7k^2 - 48k = 7$

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

6)  $11x^2 + 1 = 10$

7)  $-5x^2 + 3x + 19 = 1$

8)  $6p^2 - 7p - 8 = -9$

9)  $9x^2 + 8x - 3 = 7x^2 + 2x$

## Answers to 17.5 Homework

$$1) \{5 + \sqrt{7}, 5 - \sqrt{7}\}$$

$$2) \left\{\frac{1}{4}, -1\right\}$$

$$3) \left\{\frac{8}{7}, 7\right\}$$

$$4) \left\{\frac{8}{5}, -\frac{4}{7}\right\}$$

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

$$6) \left\{\frac{3\sqrt{11}}{11}, -\frac{3\sqrt{11}}{11}\right\}$$

$$7) \left\{\frac{3 - 3\sqrt{41}}{10}, \frac{3 + 3\sqrt{41}}{10}\right\}$$

$$8) \left\{1, \frac{1}{6}\right\}$$

$$9) \left\{\frac{-3 + \sqrt{15}}{2}, \frac{-3 - \sqrt{15}}{2}\right\}$$