

17.2 Homework

Date _____ Period _____

Solve each equation by completing the square.

1) $r^2 - 10r - 29 = 10$

Solve each equation by taking square roots.

2) $2n^2 - 4 = 194$

3) $9n^2 + 7 = 107$

Solve each equation by factoring.

4) $a^2 + 13a = -40$

5) $r^2 + 3r = 10$

$$6) 7x^2 = 8 + 26x$$

$$7) 15p^2 - 30 = -7p$$

Solve each equation with the quadratic formula.

$$8) 5p^2 + 12p = -4$$

$$9) b^2 = 10b + 7$$

Answers to 17.2 Homework

1) $\{13, -3\}$

2) $\{3\sqrt{11}, -3\sqrt{11}\}$

3) $\left\{3\frac{1}{3}, -3\frac{1}{3}\right\}$

4) $\{-5, -8\}$

5) $\{-5, 2\}$

6) $\left\{-\frac{2}{7}, 4\right\}$

7) $\left\{\frac{6}{5}, -\frac{5}{3}\right\}$

8) $\left\{-\frac{2}{5}, -2\right\}$

9) $\{5 + 4\sqrt{2}, 5 - 4\sqrt{2}\}$