

15.3 Homework

Date _____ Period _____

Solve each equation by taking square roots.

1) $7x^2 + 5 = 453$

2) $7n^2 + 9 = 149$

Solve each equation by completing the square.

3) $x^2 + 4x - 15 = -10$

Solve each equation by factoring.

4) $m^2 = 16$

5) $n^2 + 40 = 13n$

$$6) n^2 - 10 = 3n$$

$$7) x^2 = -28 - 11x$$

$$8) 7p^2 - 24p = -9$$

$$9) 3r^2 - 48 = 10r$$

$$10) 7n^2 = 56 + 41n$$

Answers to 15.3 Homework

1) $\{8, -8\}$

5) $\{5, 8\}$

9) $\left\{-\frac{8}{3}, 6\right\}$

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

6) $\{5, -2\}$

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

3) $\{1, -5\}$

7) $\{-4, -7\}$

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

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