

Week 4 Homework

Solve each equation.

1) $|x| = 8$

2) $|x| = 9$

3) $|a - 1| = 4$

4) $|n - 8| = 10$

5) $|3n| = 3$

6) $|9b - 9| = 99$

7) $|8 + 4p| = 44$

8) $|-4b - 8| = 44$

9) $5 + |-6x| = 17$

10) $\left|\frac{x}{2}\right| + 10 = 13$

$$11) -7 \left| \frac{x}{6} \right| = -7$$

Solve each equation by taking square roots.

$$12) v^2 = 41$$

$$13) x^2 = 57$$

$$14) k^2 = -84$$

$$15) n^2 + 8 = 34$$

$$16) m^2 - 10 = -6$$

$$17) k^2 + 4 = 67$$

$$18) 6n^2 + 1 = 55$$

$$19) 7v^2 + 9 = 184$$

$$20) 3n^2 - 8 = 133$$

Week 4 Homework

Solve each equation.

1) $|x| = 8$

 $\{8, -8\}$

2) $|x| = 9$

 $\{9, -9\}$

3) $|a - 1| = 4$

 $\{5, -3\}$

4) $|n - 8| = 10$

 $\{18, -2\}$

5) $|3n| = 3$

 $\{1, -1\}$

6) $|9b - 9| = 99$

 $\{12, -10\}$

7) $|8 + 4p| = 44$

 $\{9, -13\}$

8) $|-4b - 8| = 44$

 $\{-13, 9\}$

9) $5 + |-6x| = 17$

 $\{-2, 2\}$

10) $\left|\frac{x}{2}\right| + 10 = 13$

 $\{6, -6\}$

$$11) -7 \left| \frac{x}{6} \right| = -7$$

$$\{6, -6\}$$

Solve each equation by taking square roots.

$$12) v^2 = 41$$

$$\{6.403, -6.403\}$$

$$13) x^2 = 57$$

$$\{7.55, -7.55\}$$

$$14) k^2 = -84$$

$$\text{No solution.}$$

$$15) n^2 + 8 = 34$$

$$\{5.099, -5.099\}$$

$$16) m^2 - 10 = -6$$

$$\{2, -2\}$$

$$17) k^2 + 4 = 67$$

$$\{7.937, -7.937\}$$

$$18) 6n^2 + 1 = 55$$

$$\{3, -3\}$$

$$19) 7v^2 + 9 = 184$$

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

$$20) 3n^2 - 8 = 133$$

$$\{6.856, -6.856\}$$