

## Solving Absolute Value Equations

Solve each equation.

1)  $|m + 10| = 3$

2)  $|-5 + r| = 7$

3)  $|-5x + 7| = 33$

4)  $|6n + 7| = 7$

5)  $|-6r| - 6 = 30$

6)  $|b - 9| - 8 = 2$

7)  $|5n + 6| - 1 = 3$

8)  $\frac{|8x + 6|}{6} = 5$

9)  $7 + 9|x - 4| = 25$

10)  $3|n + 8| - 6 = 18$

11)  $6 + 5|7x - 3| = 26$

12)  $|3 - 3x| + 7 = 13$

## Solving Absolute Value Equations

Solve each equation.

1)  $|m + 10| = 3$   
 $\{-7, -13\}$

2)  $|-5 + r| = 7$   
 $\{12, -2\}$

3)  $|-5x + 7| = 33$   
 $\left\{-\frac{26}{5}, 8\right\}$

4)  $|6n + 7| = 7$   
 $\left\{0, -\frac{7}{3}\right\}$

5)  $|-6r| - 6 = 30$   
 $\{-6, 6\}$

6)  $|b - 9| - 8 = 2$   
 $\{19, -1\}$

7)  $|5n + 6| - 1 = 3$   
 $\left\{-\frac{2}{5}, -2\right\}$

8)  $\frac{|8x + 6|}{6} = 5$   
 $\left\{3, -\frac{9}{2}\right\}$

9)  $7 + 9|x - 4| = 25$   
 $\{6, 2\}$

10)  $3|n + 8| - 6 = 18$   
 $\{0, -16\}$

11)  $6 + 5|7x - 3| = 26$   
 $\left\{1, -\frac{1}{7}\right\}$

12)  $|3 - 3x| + 7 = 13$   
 $\{-1, 3\}$