

**DIRECTIONS:** Determine whether the given value for  $x$  is a solution for the absolute value equation.

1.  $|3x + 7| = 13; x = -2$

2.  $|6 - 5x| = 19; x = 5$

3.  $|-4x + 7| = 29; x = 9$

4.  $|-2 - 8x| = 26; x = -3$

**DIRECTIONS:** Solve the following absolute value equations. Show all work. Graph your solutions on the number lines.

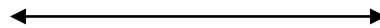
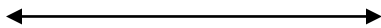
5.  $|x - 9| = 7$

6.  $|x + 8| = 12$



7.  $|4x| = 24$

8.  $|\frac{2}{3}x| = 18$



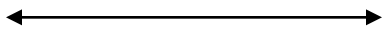
**DIRECTIONS:** Solve the following absolute value equations. Show all work. Graph your solutions on the number lines.

9.  $|3x - 9| = 18$

10.  $|5x + 8| = 0$



11.  $|3x - 12| = -3$



**DIRECTIONS:** Solve the following absolute value equations. Show all work.

12.  $|1 - 2x| = 21$

13.  $5|x - 12| = 30$

14.  $3|4 - x| = 36$

15.  $-3|x + 1| = 15$

16.  $4|2x - 6| - 2 = 10$

17.  $8 - |2x - 5| = -1$