



# Practice

## 6.5 Absolute-Value Equations and Inequalities

Find the values of  $x$  that solve each absolute-value equation.

Check your answers.

1.  $|x + 2| = 5$  \_\_\_\_\_ 2.  $|x + 6| = 7$  \_\_\_\_\_

3.  $|x - 7| = 4$  \_\_\_\_\_ 4.  $|x - 3| = 5$  \_\_\_\_\_

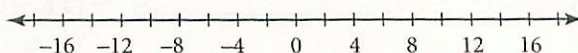
5.  $|4x - 2| = 6$  \_\_\_\_\_ 6.  $|3x + 5| = 11$  \_\_\_\_\_

7.  $|-4 + x| = 7$  \_\_\_\_\_ 8.  $|x - 2.75| = 0.05$  \_\_\_\_\_

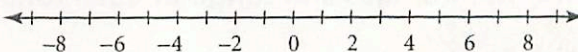
Find the values of  $x$  that solve each absolute-value inequality.

Graph each answer on the number line provided. Check your answers.

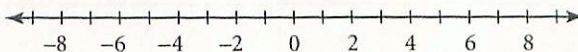
9.  $|x + 2| > 7$



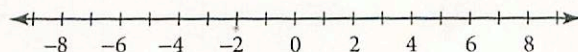
10.  $|x + 1| \leq 8$



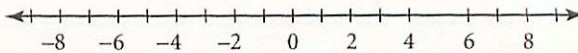
11.  $|-2 - x| \geq 4$



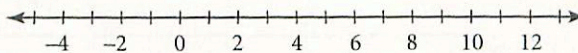
12.  $|x + 1| \geq 4$



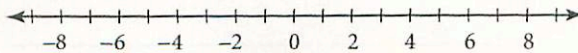
13.  $|x - 3| > 2$



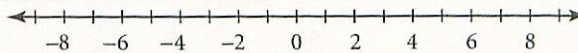
14.  $|4 - x| \geq 5$



15.  $|x + 2| > 2$



16.  $|x - 5| \leq 1$



17.  $|x + 2| < 2$

