

Homework

Pg. 215 #1 - 6, 11 - 15

Solve each absolute-value inequality and graph the solutions.

1. $|x| - 5 \leq -2$

2. $|x| - 6 > 16$

3. $|x + 1| - 7.8 < 6.2$

4. $|x + 5| - 4\frac{1}{2} \geq 7\frac{1}{2}$

5. $|3x| + 2 < 8$

6. $|x| + 2.9 > 8.6$

11. Find all values of x that make $|x - 5|$

a. less than 11.

b. at least 4.

c. less than or equal to 8.

Tell whether the given value of x is a solution of the inequality.

12. $|x| > 3; x = -5$

13. $|2x| \leq 8; x = 6$

14. $|x - 1.2| < 5.4; x = 6.6$

15. $\left| x + 3\frac{1}{2} \right| - 2\frac{1}{4} \geq 5\frac{1}{4}; x = -11$