

**Practice 4-6****Absolute Value Equations and Inequalities**

Solve each inequality. Graph your solution.

1.  $|d| > 2$

2.  $|h| > 6$

3.  $|2k| > 8$

4.  $|s + 4| > 2$

5.  $|3c - 6| \geq 3$

6.  $|2n + 3| \leq 5$

7.  $|3.5z| > |7|$

8.  $\left| \frac{2}{3}x \right| \leq 4$

9.  $9 > |6 + 3t|$

10.  $|j| - 2 \geq 6$

11.  $5 > |v + 2| + 3$

12.  $|4y + 11| < 7$

13.  $|2n - 1| \geq 1$

14.  $\left| \frac{1}{2}x + 1 \right| > 1$

15.  $-2|h - 2| > -2$

16.  $3|2x| \leq 12$

17.  $3|s - 4| + 21 \leq 27$

18.  $-6|w - 3| < -24$

19.  $-\frac{1}{2}|6x - 3| \leq -\frac{3}{2}$

20.  $-2|3j| - 8 \leq -20$

Solve each equation. If there is no solution, write *no solution*.

21.  $|a| = 9.5$

22.  $|b| = -2$

23.  $|d| - 25 = -13$

24.  $|6z| + 3 = 21$

25.  $|3c| - 45 = -18$

26.  $-2 = -\frac{|z|}{7}$

27.  $|x| = -0.8$

28.  $-4|7 + d| = -44$