

**Algebra I**  
**Unit 3 Test Review**

**Solve and graph each inequality.**

1.  $5x - 6 > 24$

2.  $\frac{x}{-3} - 2 \leq 3$

3.  $4x + 5 < 2x - 7$

4.  $3x + 5 - x > 17$

5.  $2(3x - 4) \geq x + 12$

6.  $\frac{x}{2} - 3 > x + 5$

7.  $12 + x > 3x - 4$

8.  $\frac{2x-3}{4} > 1$

9.  $4 + 6x \geq 8x + 12$

**Solve and graph each inequality.**

10.  $3x - 4 > 8$  or  $2x + 6 < -4$

11.  $-4 \leq 2x + 6 < 14$

12.  $7 - 2x > -11$  and  $3x + 5 > 14$

13.  $5 < 2x - 7 \leq 3$

**Write, solve, and graph an inequality for each verbal statement.**

14. Twice a number is less than a number plus 7.

15. The sum of a number and six is greater than or equal to twice the number minus four.

each verbal st.

plus 7.