

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Algebra I

Directions: Solve each inequality, graph, and provide a check. Write your answer in set notation.

1.  $|x+3|\leq 7$

5.  $-2|x/2|\leq -8$

2.  $2|1-x|>6$

6.  $5|2x-1|-6\geq -1$

3.  $|3+2x|\geq 9$

7.  $|5x+3|>12$

4.  $|x-7|-6< -4$

8.  $\frac{1}{2}|x+5|>3$