

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

Honors Algebra 2

Unit 4b (Part 2) Test Review

Solve the following equation or inequality. Write answers in interval notation for the inequalities.

1.  $|1 - x| = 2x$

5.  $3|5x - 5| + 1 \geq 10$

2.  $2|-2x + 5| + 3 = 17$

6.  $3 + 2|x - 3| = 7$

3.  $-2|x + 3| \geq -12$

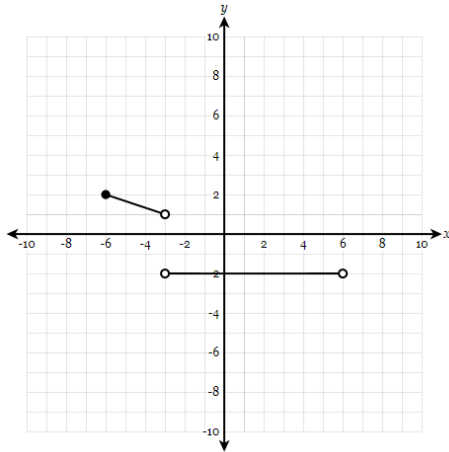
7.  $2|3x - 1| + 8 < 4$

4.  $|2x + 2| = 8$

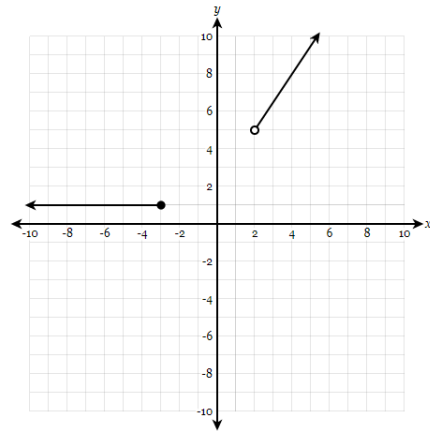
8.  $|2 - 3x| - 5x > 4$

Express the function graphed on the axes below as a piecewise function. State the Domain and Range.

9.



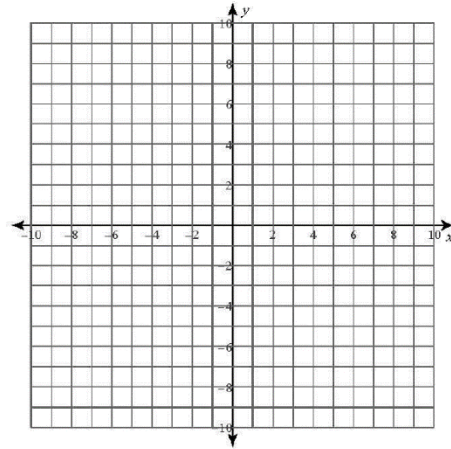
10.



Graph the following function on the axes provided.

11.

$$f(x) = \begin{cases} -2x + 1 & \text{for } -4 < x < 1 \\ 6 & \text{for } 1 < x < 4 \end{cases}$$



12.

$$f(x) = \begin{cases} -2 & \text{for } x < -5 \\ x - 4 & \text{for } x > -1 \end{cases}$$

