

Name \_\_\_\_\_

Date \_\_\_\_\_

8A; Algebra 1

Period \_\_\_\_\_

Homework

1) Brian said that the union of the graph of  $x > 2$  and the graph  $x < 2$  consist of every point in the coordinate plane. Do you agree with Brian? Explain why or why not.

In 2-5: Transform each sentence into one whose left member is y. (slope-intercept form)

2)  $y - 2x > 0$

3)  $5x > 2y$

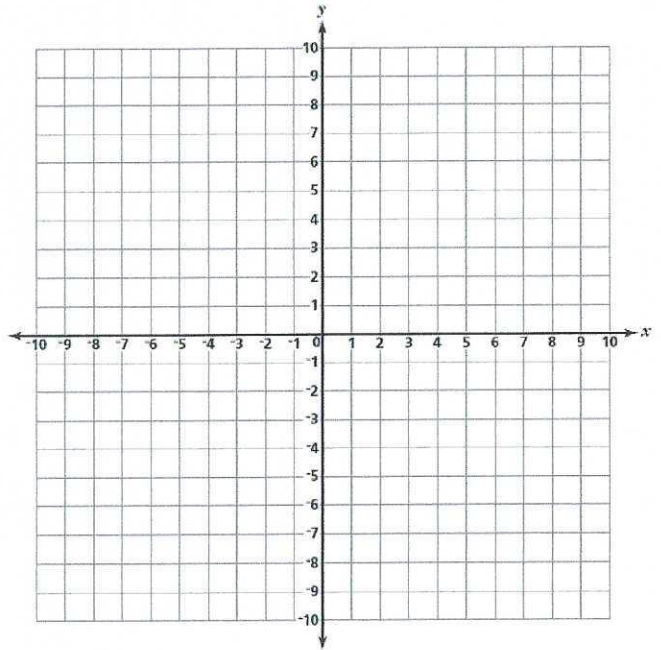
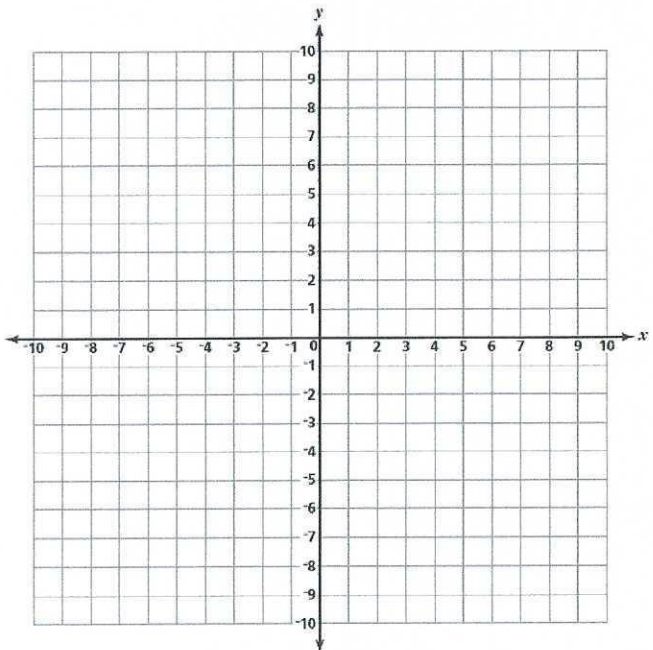
4)  $3x - y \geq 4$

5)  $4y - 3x \leq 12$

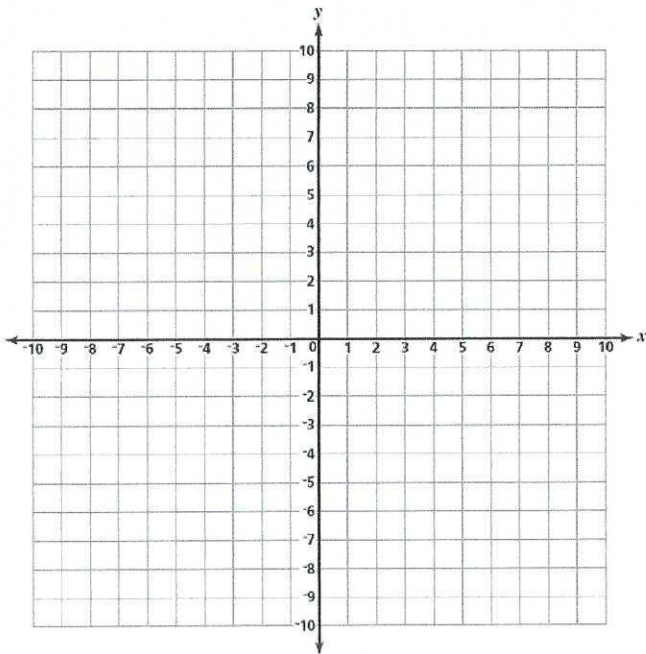
In 6-10: Graph each sentence in the coordinate plane.

6)  $x \leq -2$

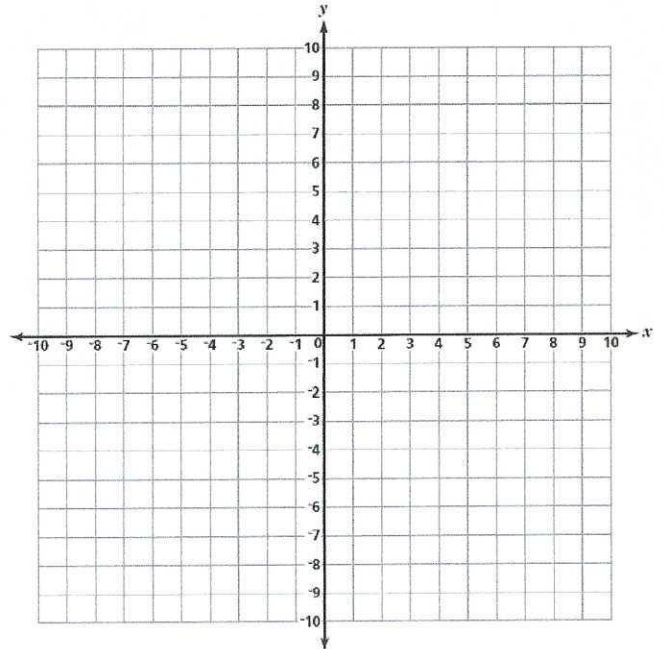
7)  $y > 5$



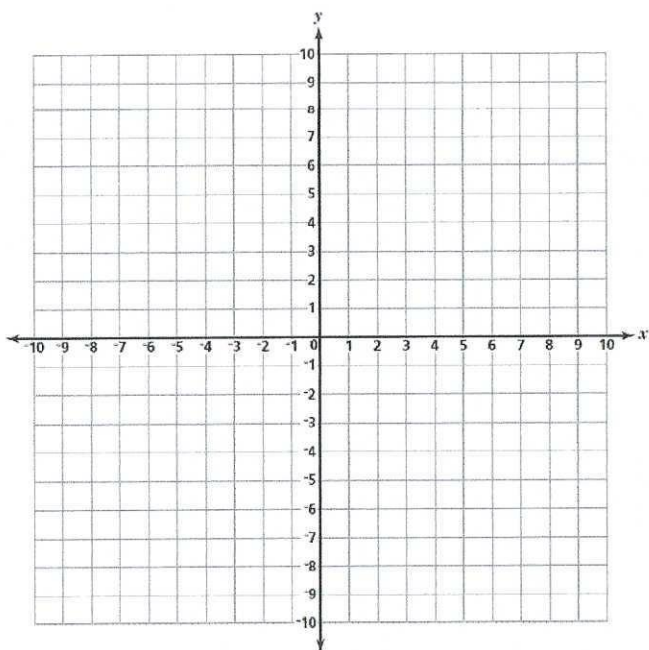
$$8) y \geq \frac{1}{2}x + 3$$



$$9) 2y - 6x > 0$$



$$10) 2x - 3y \geq 6$$



11) At the water park, the cost of a hamburger ( $x$ ) plus the cost of a can of soda ( $y$ ) is greater than 5 dollars.

- Write an inequality to represent this.
- Graph your inequality
- Choose a coordinate that could be reasonable values for  $x$  and  $y$ .

