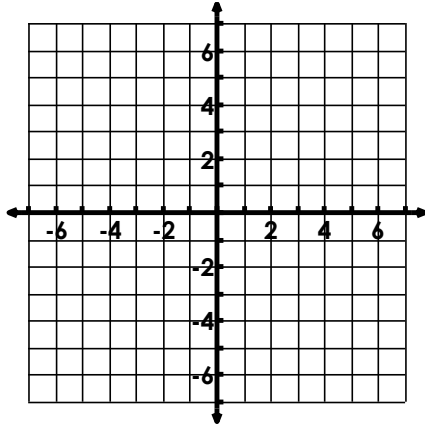


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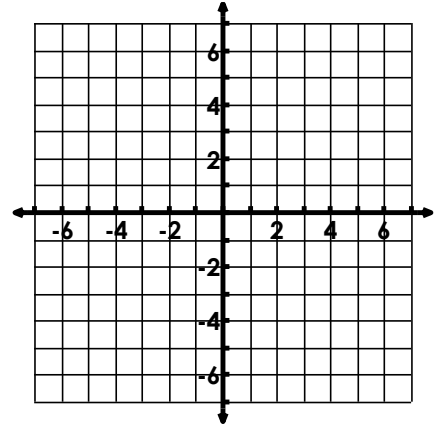
Date: _____

Graphing Systems of Inequalities Homework

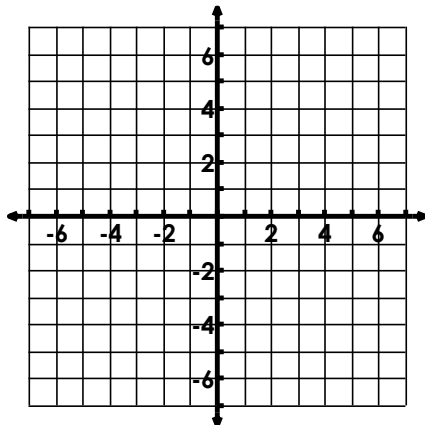
1. $3x + y \geq 5$



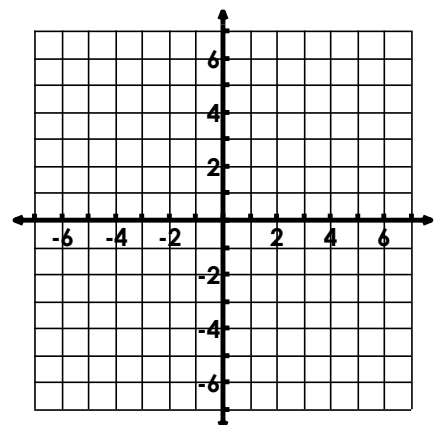
2. $2x - y < 6$



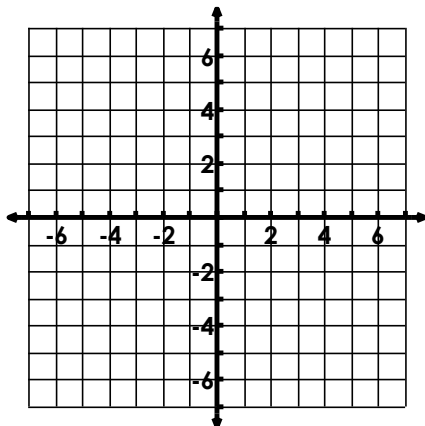
3. $x + y > 2$
 $2x - y > 1$



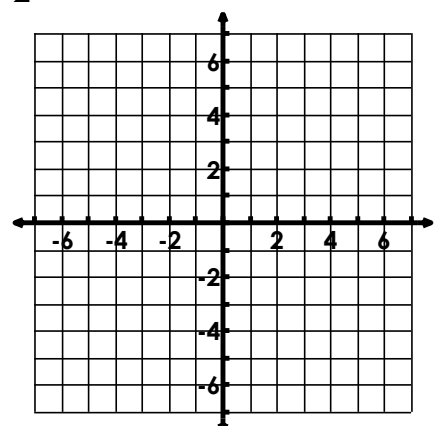
4. $3x + y \geq -3$
 $x + 2y \leq 4$



5. $y \geq 2$
 $y < 2x - 1$

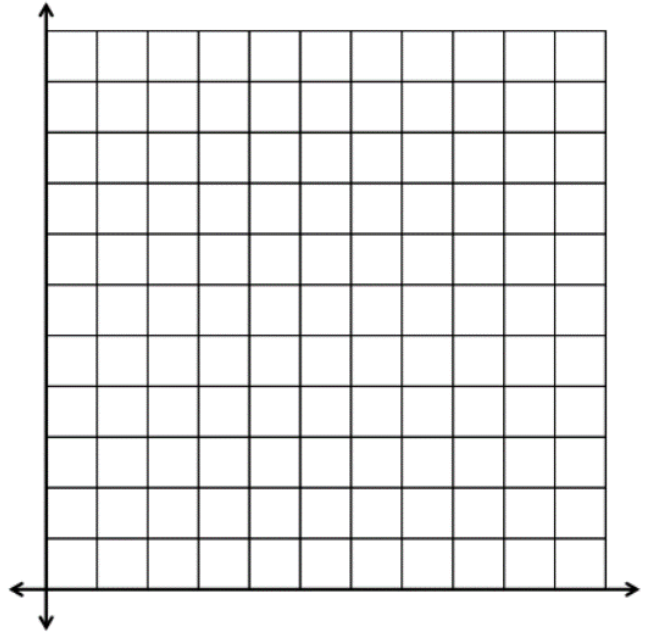


6. $y \geq \frac{1}{3}x - 2$
 $y > -x + 2$



7. Mikayla decide to work two jobs over the summer to save for college. She makes \$15 per hour for babysitting her neighbor's kids and \$9 per hour at the local pool. Mikayla wants to make at least \$225 per week and wants to work more than 20 hours each week.

- A. Define your variables.
- B. Write a system of inequalities that represents the scenario.
- C. Graph the system. Be sure to label your axes.
- D. Write two possible solutions using full sentences based on the graph.



Review

8. Which value of k would create a system with no solution?

$$y = -5x + 1$$

$$y = kx - 3$$

- A. 5 B. 1 C. -5 D. -3

9. Wilson and Amaya are selling cookie dough for a school fundraiser. Wilson sold 5 packages of chocolate chip cookie dough and 12 packages of oatmeal cookie dough for \$301. Amaya sold 4 packages of chocolate chip and 4 oatmeal for a total of \$140. Find the cost of each type of cookie dough.
