

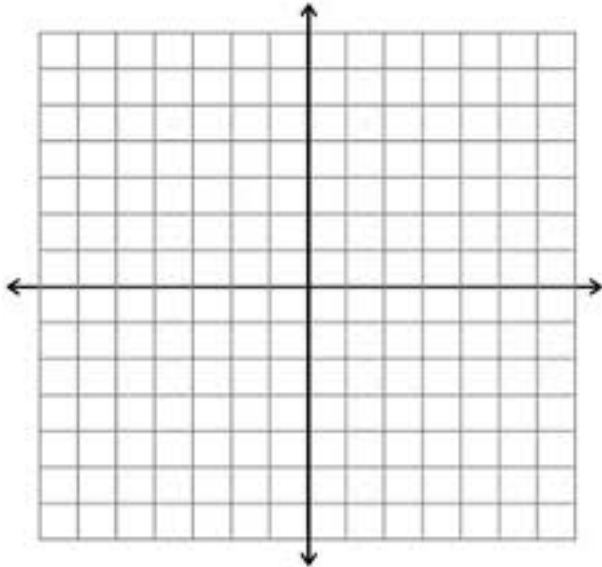
Name: _____
Algebra 1

Date: _____
Band: _____

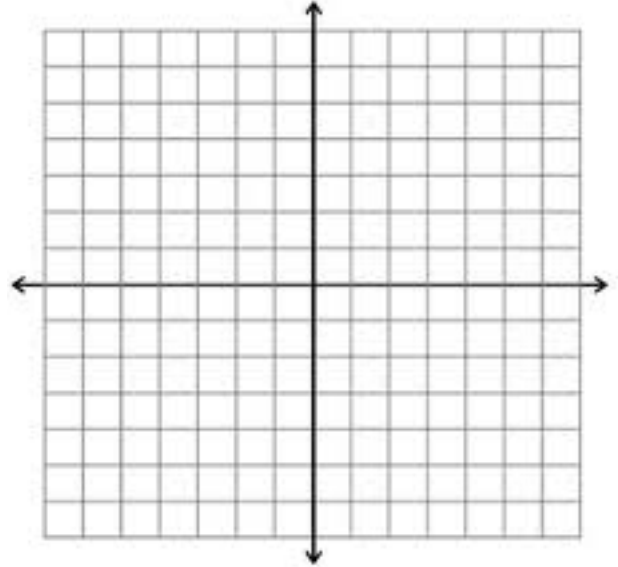
LT#8: Solve systems of linear inequalities by graphing.

Solve each system of inequalities by graphing.

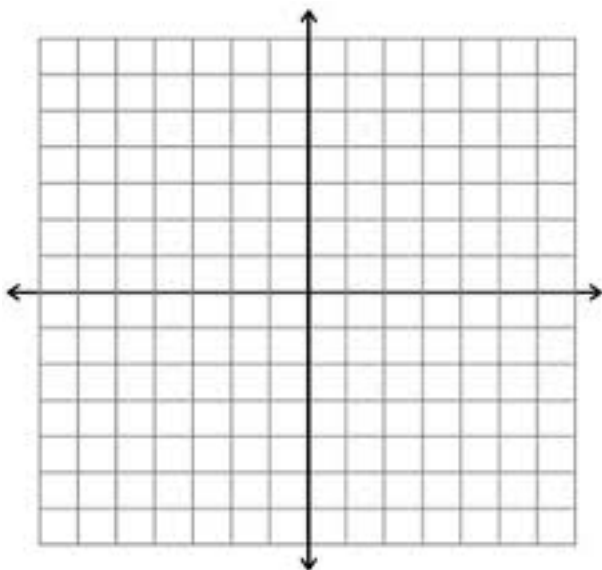
1.
$$\begin{cases} 3x + y \leq 1 \\ x - y \leq 3 \end{cases}$$



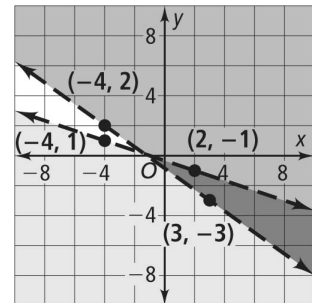
2.
$$\begin{cases} 5x - y \leq 1 \\ x + 3y \leq -2 \end{cases}$$



3.
$$\begin{cases} 4x + 3y \leq 1 \\ 2x - y \leq 2 \end{cases}$$

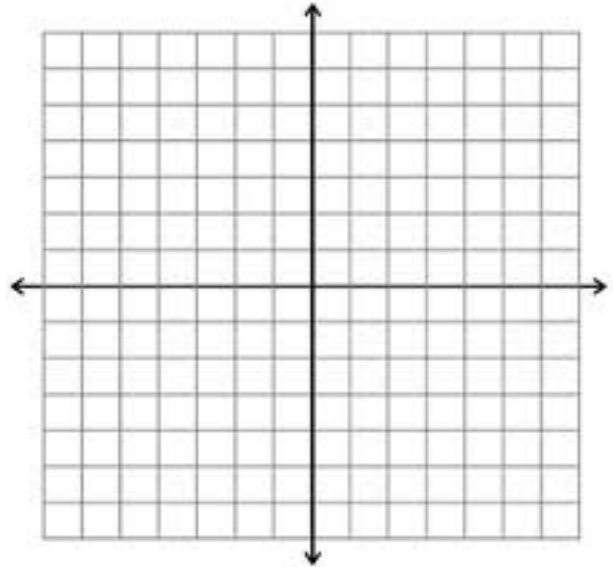


4. Write a system of inequalities for the following graph.



LT#9: Model real-world situations using systems of linear inequalities.

5. Jasper is a student, and he can work for at most 20 hours a week. He needs to earn at least \$75 to cover his weekly expenses. His dog-walking job pays \$5 per hour and his job as a car wash attendant pays \$4 per hour. Write a system of inequalities to model the situation, and graph the inequalities.



6. Rachel wants to bake at most 10 loaves of bread for a bake sale. She wants to make banana bread that sells for \$1.25 each and pumpkin bread that sells for \$1.50 each and make at least \$24 in sales. Write a system of inequalities for the given situation and graph the inequalities.

