

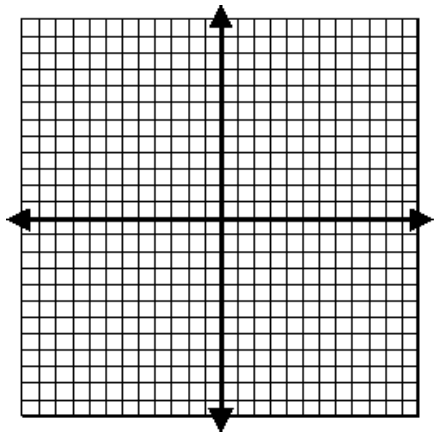
State whether the ordered pair is a solution of the inequality.

1. $5x + 7y \leq 10$; $(-1, 2)$

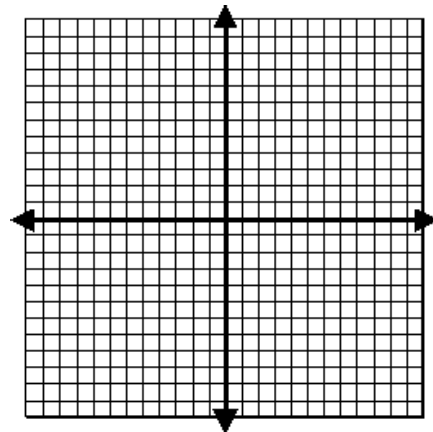
2. $-3x - 2y \geq 0$; $(3, -3)$

Graph each inequality.

3. $-2x + y > 4$



4. $y \leq 3$



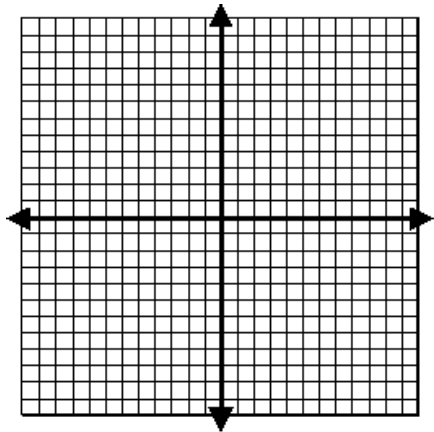
State whether the ordered pair is a solution of the system of linear inequalities.

5. $(9, -10)$; $y \leq -x + 9$
 $y \geq -2x + 12$

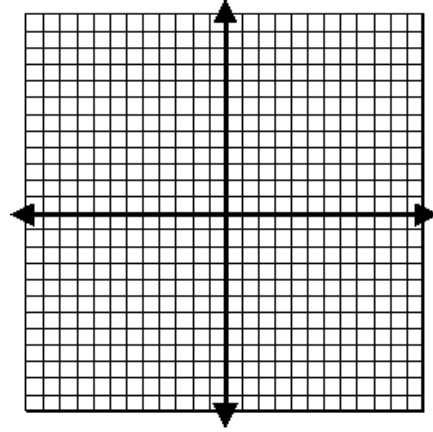
6. $(2, 0)$; $y > x - 5$
 $y \leq 2x + 1$

Graph each system of linear inequalities.

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

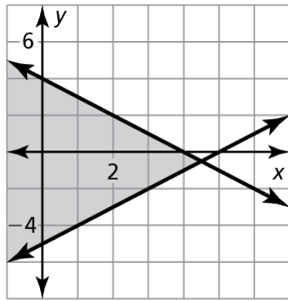


8. $y > 3x + 5$
 $y \leq \frac{1}{2}x + 6$

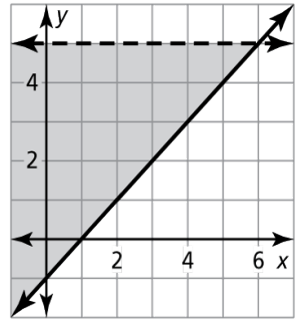


Write a system of linear inequalities that represents each graph.

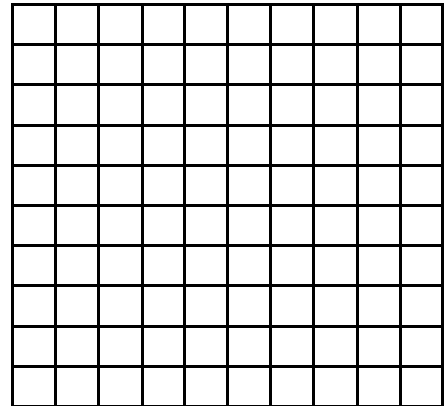
9.



10.



11. Fuel x costs \$2 per gallon and fuel y costs \$3 per gallon. You have at most \$18 to spend on fuel. Write and graph a system of three linear inequalities to represent this situation.



12. Mary babysits for \$4 per hour. She also works as a tutor for \$7 per hour. She is only allowed to work 13 hours per week. She wants to make at least \$65. Write and graph a system of four linear inequalities to represent this situation.

