

3.2 Systems of Inequalities

Algebra 1

Name: _____

CA #2

Circle all the ordered pairs (x, y) that are solutions to the given inequality.

1. $x - 4y > 4$

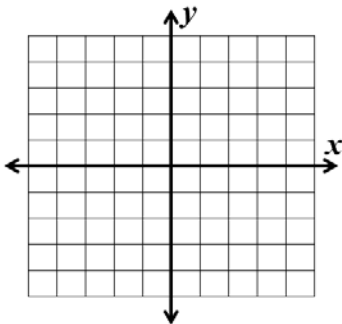
(0, 0) (3, 0) (0, -1) (-1, 1) (2, -1)

2. $7x - 3y \leq 6$

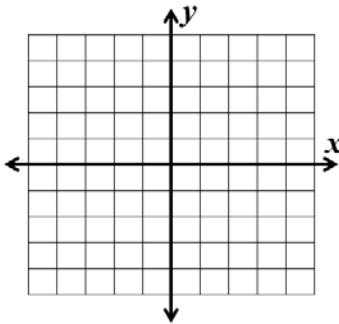
(0, 0) (0, 3) (1, 0) (-1, -5) (-2, 1)

Graph the following inequalities.

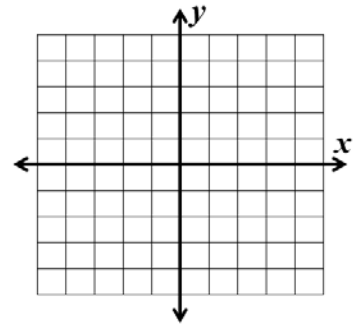
3. $y \geq -3x + 2$



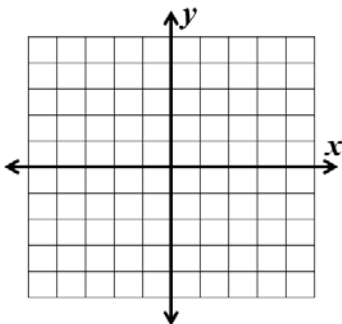
4. $x < -3$



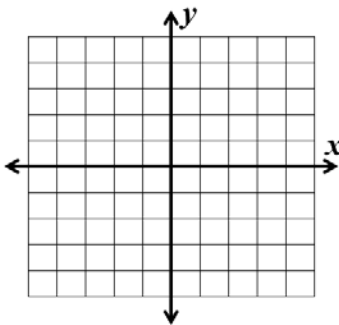
5. $3x + 2y > 2$



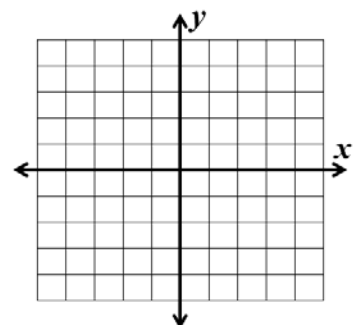
6. $y > 0$



7. $y < 2x - 1$

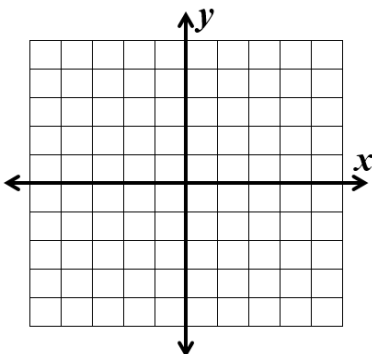


8. $x - 3y > -12$

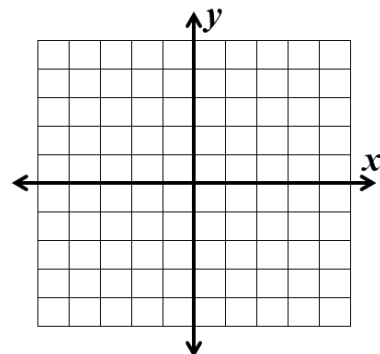


Graph the following systems of inequalities.

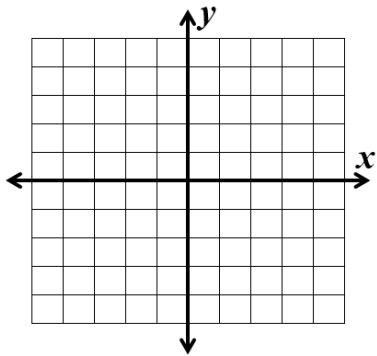
9. $\begin{cases} y < 3x + 2 \\ y < -x - 2 \end{cases}$



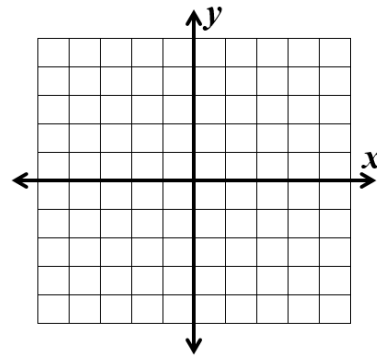
10. $\begin{cases} x - 3y \geq -6 \\ y > 1 \end{cases}$



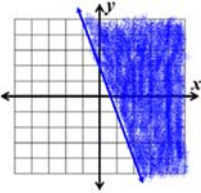
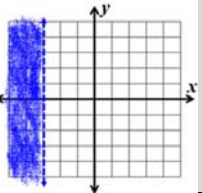
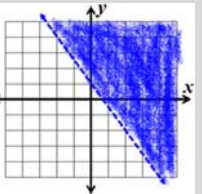
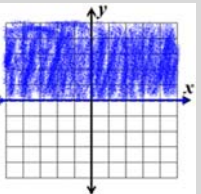
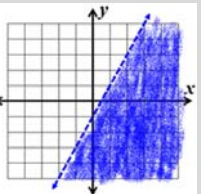
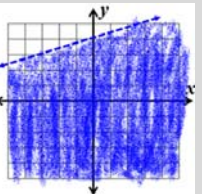
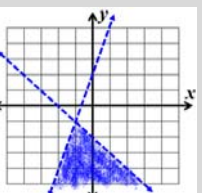
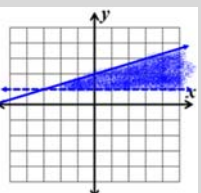
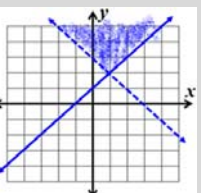
$$11. \begin{cases} y > -x + 3 \\ y \geq x + 1 \end{cases}$$



$$12. \begin{cases} x + 2y > -6 \\ 3x - 2y \geq -2 \end{cases}$$



Answers to 3.2 CA #2

1. $(2, -1)$	2. $(0, 0), (0, 3), (-2, 1)$	3. 	4. 
5. 	6. 	7. 	8. 
9. 	10. 	11. 	12. 