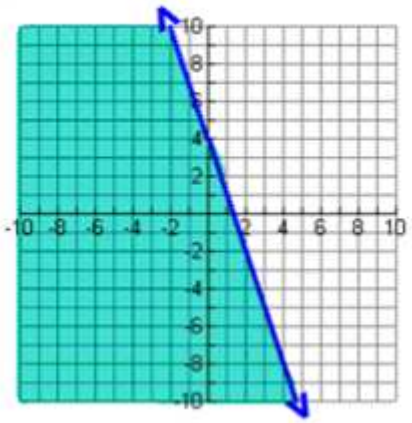
Systems of Inequalities Practice Test #1 Name: _____

Date _____Block _____

Graphing Single Inequalities

_____ 1. Which inequality represents the graph to the right:



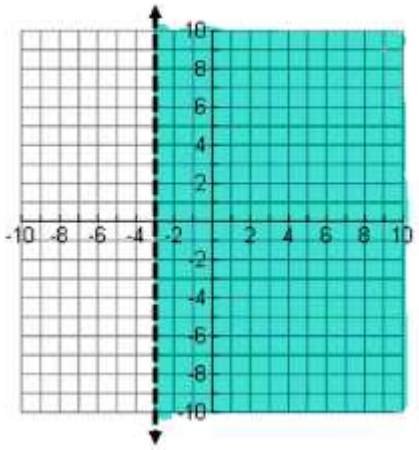
a. $y \geq 3x+4$

b. $y \leq -3x+4$

c. $y > -3x+4$

d. $y < 3x+4$

_____2. Which inequality represents the graph to the right:



a. $y \leq -3$

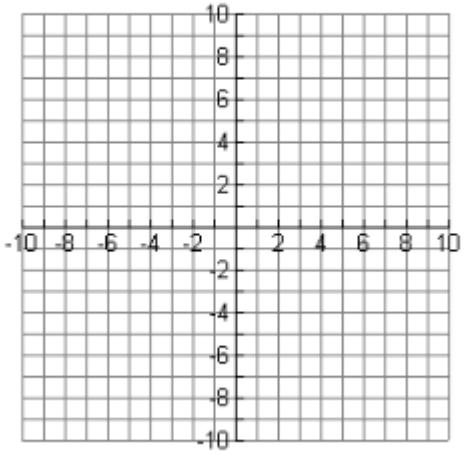
b. $y > -3$

c. $x > -3$

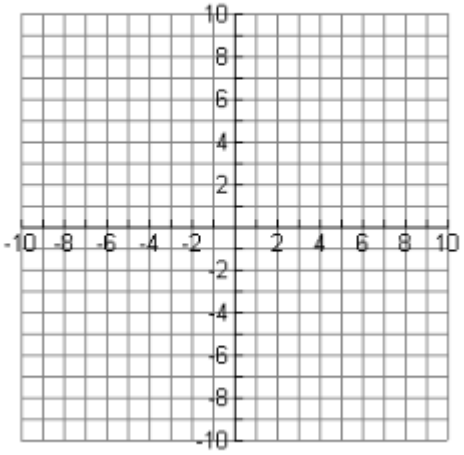
d. $x \leq -3$

Graph each inequality below:

3. $y < 2$



4. $x - 2y < -6$



Graphing Systems of Inequalities

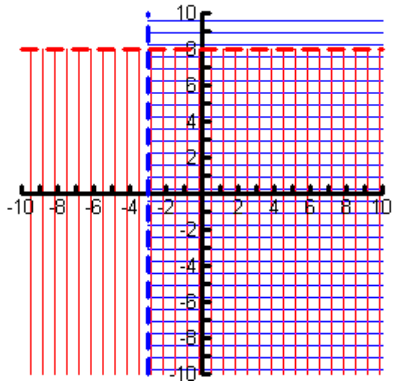
Match each system of equations to its graph below.

_____5. $y < 8$
$x > -3$

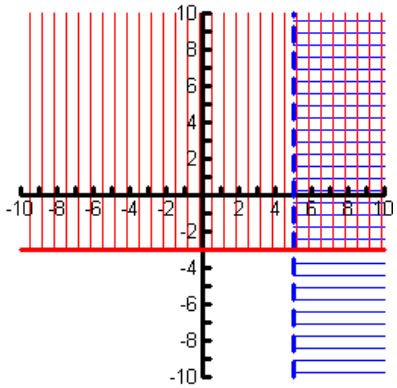
_____6. $y < 5$
$y \geq -7$

_____7. $y \geq -3$
$x > 5$

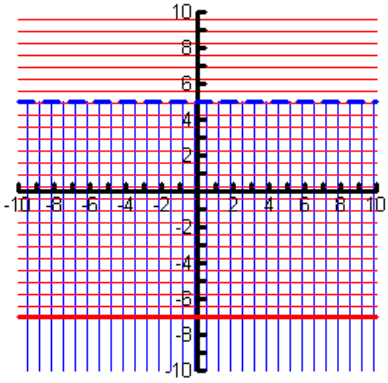
A.



B.

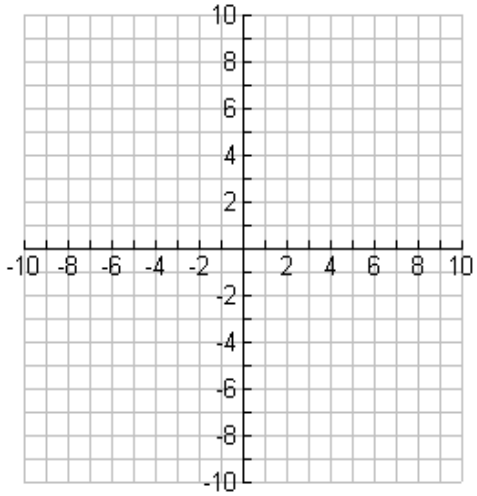


C.

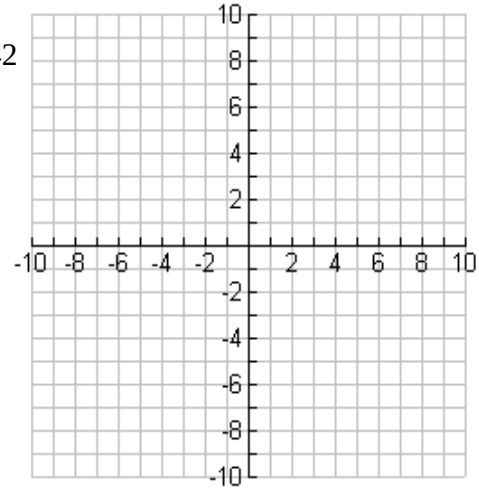


Graph each system of linear inequalities below and shade the appropriate region.

8. $y \geq \frac{-2}{3}x + 6$
$y < x + 5$

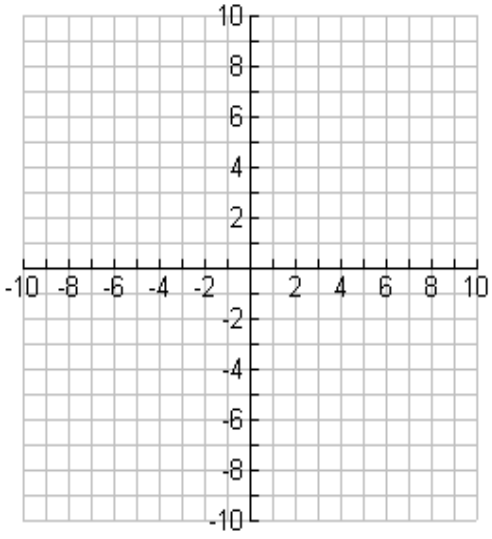


9. $3x + 9y \geq 27$
$-6x - 14y < -42$



Graph each system of linear inequalities below and shade the appropriate region.

10. $-6x + 4y < 32$
$y \geq \frac{1}{4}(x - 2) - 3$
$y < -7x + 10$



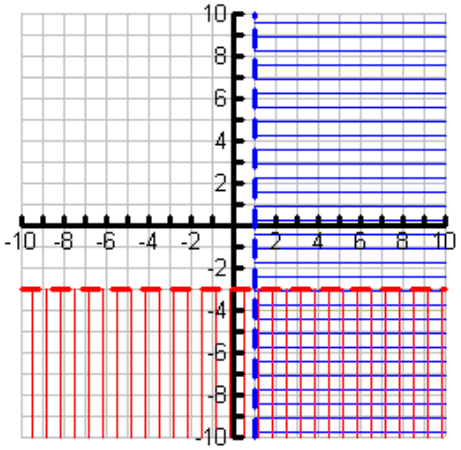
Identify Solutions to Linear Systems

11. Without graphing, determine if (1, -4) is a solution to the following system.

Answer _____

$$y \geq \frac{1}{2}x - 6$$
$$y \leq 3x$$
$$2x + y < 5$$

12. Which point is a solution to the system graphed to the right?



a. (4, 4)

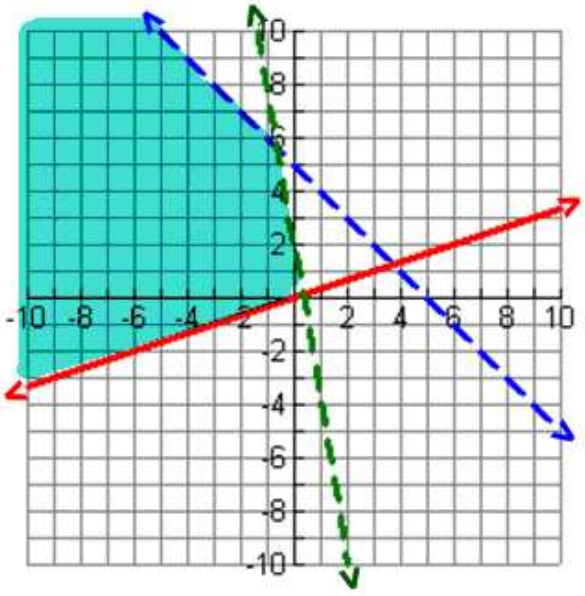
b. (4, -4)

c. (-4, -4)

d. (-4, 4)

Answer: _____

13. Which point(s) are solutions to the system graphed to the right?



A. (-2, -3)

B. (-1, 1)

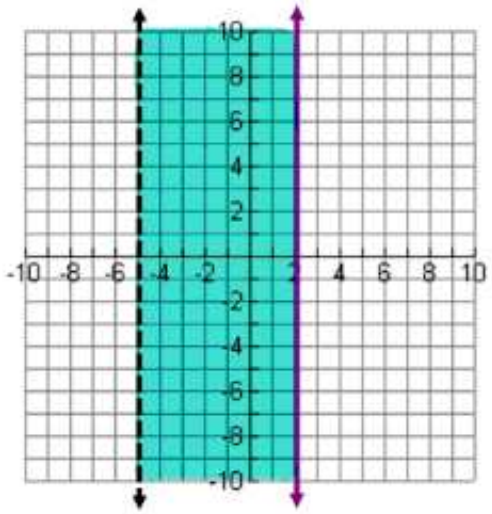
C. (2, 1)

D. (-4,0)

Answer(s): _____

Writing Systems of Linear Inequalities

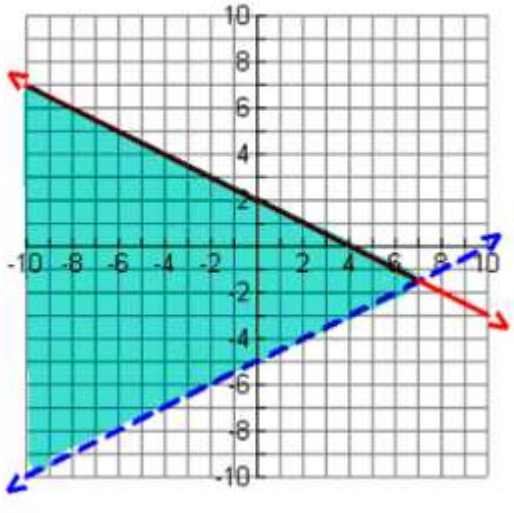
14. Write the system of 2 linear inequalities graphed below:



Answer _____

Answer _____

15. Write the system of 2 linear inequalities graphed below:



Answer _____

Answer _____

16. Write the system of 4 linear inequalities graphed below.

Answer _____

Answer _____

Answer _____

Answer _____