Systems of Inequalities Practice Test #2 Name: _____

Date _____Block _____

Graphing Single Inequalities

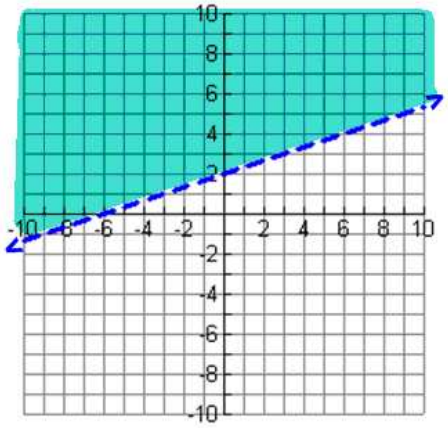
_____ 1. Which inequality represents the graph to the right:

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

b. $y < -\frac{1}{3}x+2$

c. $y \leq \frac{1}{3}x+2$

d. $y > \frac{1}{3}x+2$



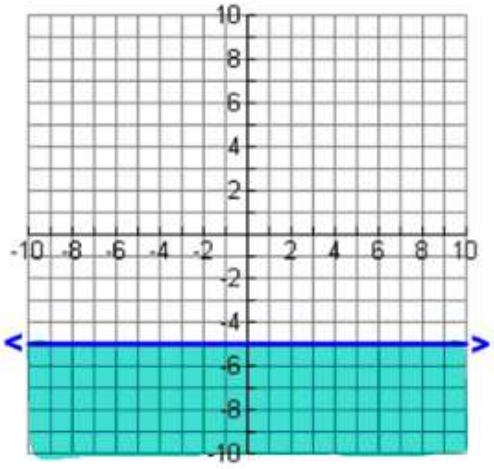
_____2. Which inequality represents the graph to the right:

a. $y \leq -5$

b. $y > -5$

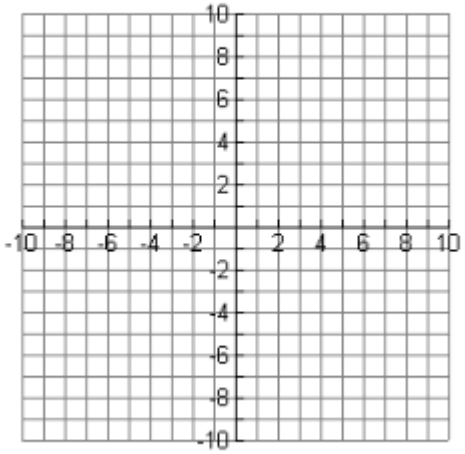
c. $x > -5$

d. $x \leq -5$

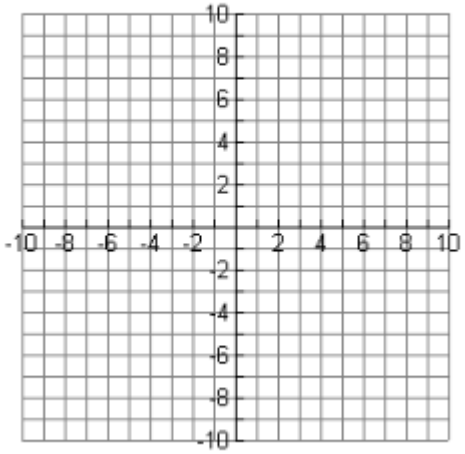


Graph each inequality below:

3. $x > -4$



4. $3x - y < -9$



Graphing Systems of Inequalities

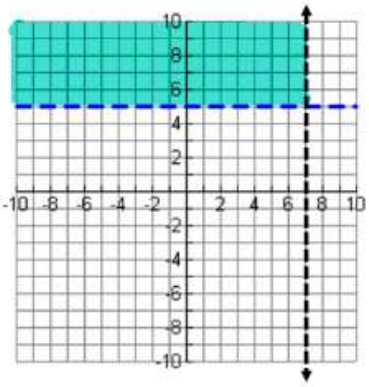
Match each system of equations to its graph below.

_____5. $y \le 7$
$y > 4$

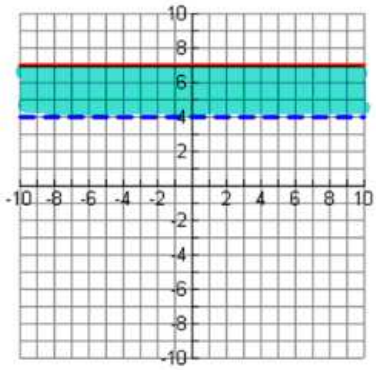
_____6. $x < 7$
$x > 4$

_____7. $x < 7$
$y > 5$

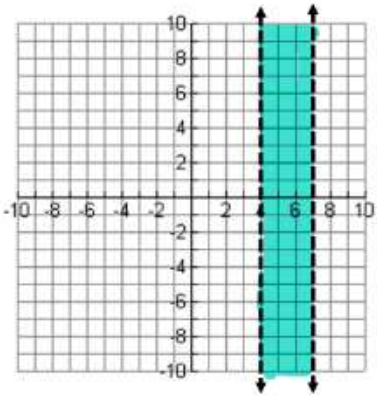
A.



B.

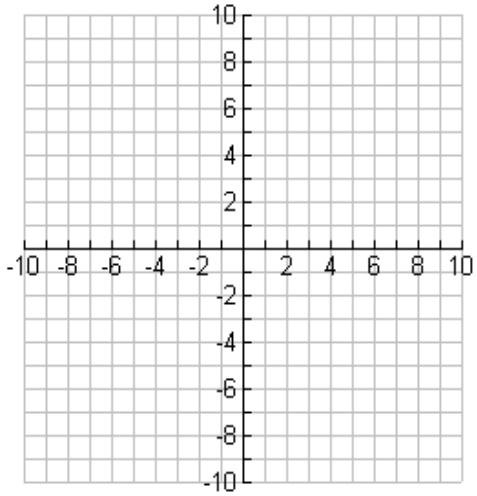


C.

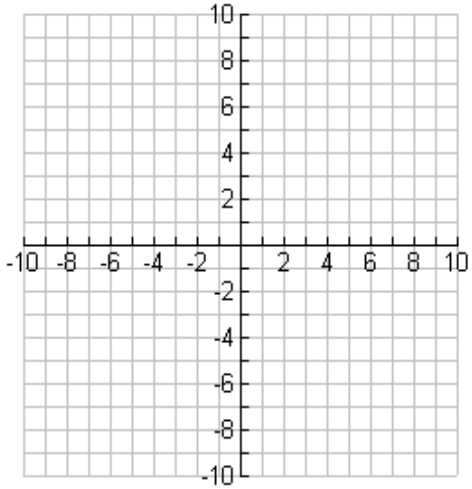


Graph each system of linear inequalities below and shade the appropriate region.

8. $y > 1$
$y \le x + 3$

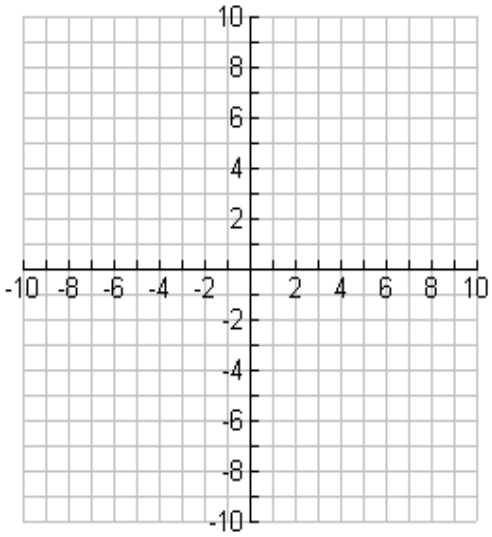


9. $2x - y \le 6$
$2x + 3y < -12$



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

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



Identify Solutions to Linear Systems

11. Without graphing, determine if (-2, -3) is a solution to the following system.

$$x + y < 4$$
$$y \geq -5x - 2$$
$$y \leq \frac{1}{2}(x-2) + 4$$

Answer _____

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

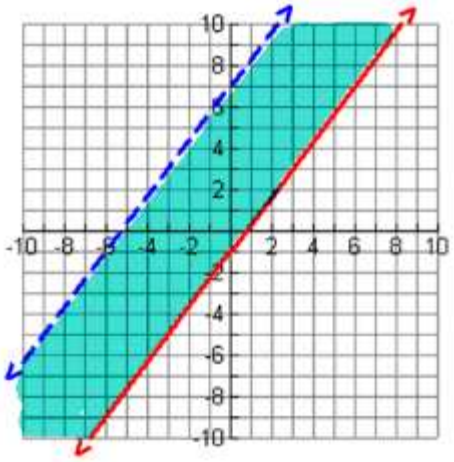
a. (3, 2)

b. (-3, -2)

c. (4, -4)

d. (-2, 6)

Answer: _____



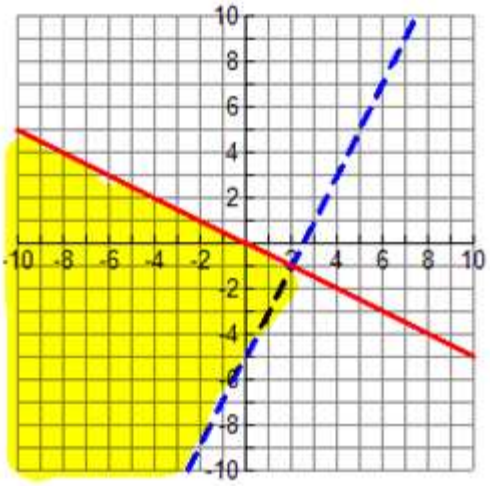
13. Which point(s) are solutions to the system graphed below?

A. (-2, -3)

B. (-1, 2)

C. (2, 1)

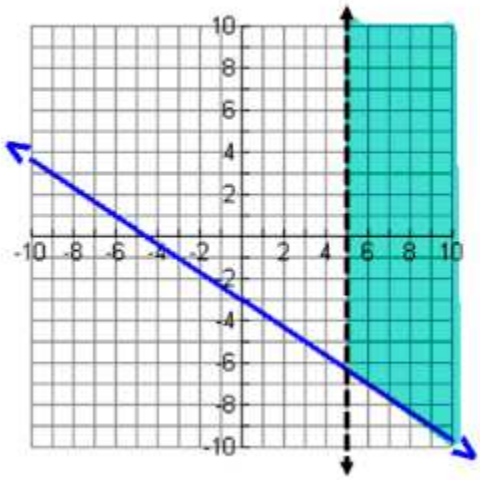
D. (-4,0)



Answer(s): _____

Writing Systems of Linear Inequalities

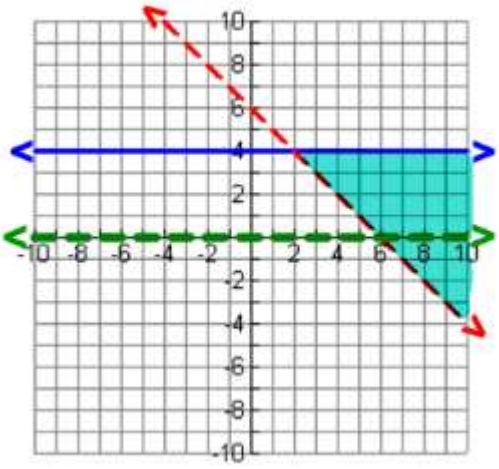
14. Write the system of 2 linear inequalities graphed below:



Answer _____

Answer _____

15. Write the system of 3 linear inequalities graphed below:



Answer _____

Answer _____

Answer _____

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

Answer _____

Answer _____

Answer _____

Answer _____