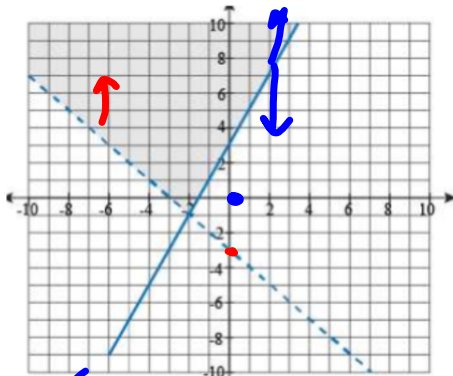


Bell Ringer

Tuesday 10/29

Write the system of inequalities represented by the graph.



$$y \geq 2x + 3$$

$$y > -x - 3$$

Graph the system of inequalities.

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

$$y \leq \frac{3}{2}x - 1$$



$$x > 3$$

$$x = 3$$

Turn in Week #10 Packet!

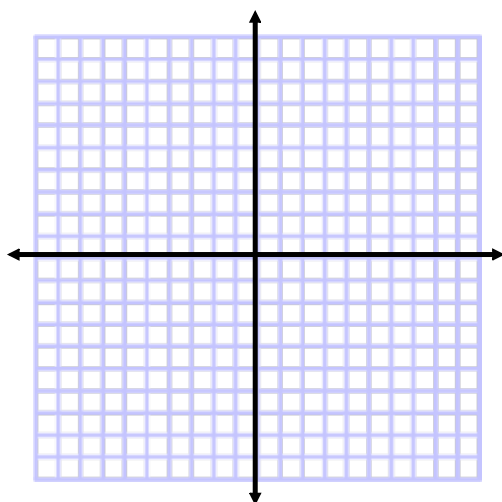
Ch 5 Test tomorrow

Review Activity on papers with
sheet protectors...

1 Solve the system of linear equations by graphing. Check your solution

$$y = \frac{1}{2}x - 3$$

$$y = -x + 3$$

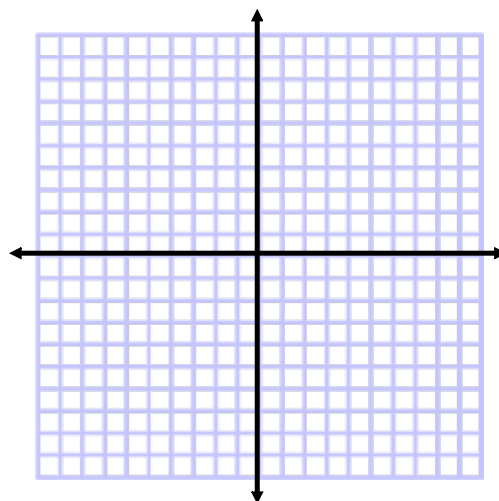


(0, -3)

2 Solve the system of linear equations by graphing. Check your solution

$$y = 2x + 5$$

$$y = -4x - 1$$



$(-1, 3)$

3 Solve the system by substitution. Check your solution

$$y = 2x - 4$$

$$7x - 2y = 5$$

$$7x - 2(2x - 4) = 5$$

$$7x - 4x + 8 = 5$$

$$3x = -3$$

$$(2, 2)$$

$$(-1, -6)$$

4 Solve the system by substitution. Check your solution

$$x = 5y + 3$$

$$2x + 4y = -1$$

$$(1/2, -1/2)$$

5 Solve the system by elimination. Check your solution

$$2x - y = 10$$

$$3x + y = -5$$

$$(1, -8)$$

6 Solve the system by elimination. Check your solution

$$7x + 4y = -14$$

$$6x + 8y = -12$$

$$(-2, 0)$$

7

Solve the system

$$-12x - 6y = 6$$

$$4x + 2y = -3$$

Infinite Solutions

8 Solve the system of linear equations. Check your solution.

$$y = -x + 3$$

$$2y = -2x + 10$$

No Solutions

9

Solve the system

You buy 8 lilies and 15 roses for \$193. Your friend buys 3 lilies and 12 roses for \$117. Write and solve a system of linear equations to find the cost of each flower .



Lily: \$11.00

Rose: \$7.00

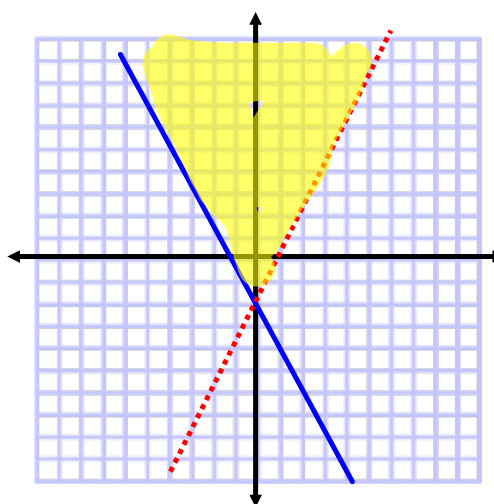
10 Graph the system of inequalities

$$y > 2x - 2$$

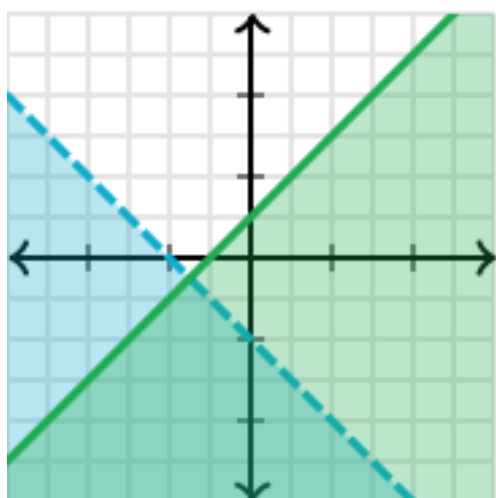
$$y \geq -2x - 2$$

Solution:

Non-Solution:



11 Write the system of inequalities represented below



$$y \leq x + 1$$

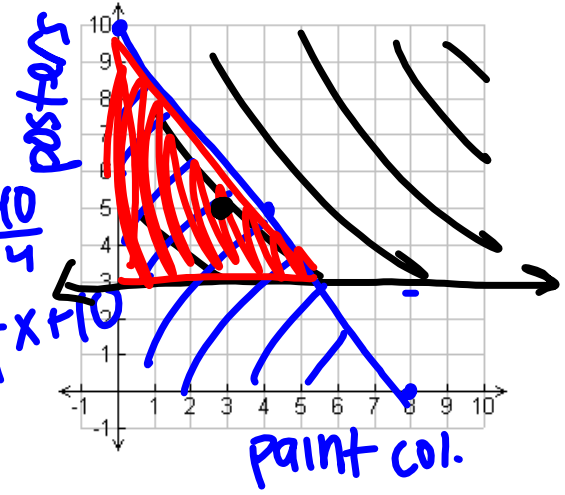
$$y < -x - 2$$

12 You are buying paint and posters to decorate your room. Paint costs \$5.00 per color. Posters are \$4.00 each. You want to buy at least 3 posters and have no more than \$40 to spend. Write a system of linear inequalities to model the situation. Graph the system



$5x + 4y \leq 40$ *Cost*
 $y \geq 3$
 ~~$x \geq 0$~~

$4y = -5x + 40$
 $y = -\frac{5}{4}x + 10$



Review pg 264 - 266 #s 1, 3, 4, 5, 7,
8, 10, 12, 13, 18, 19, 20, 21, 22