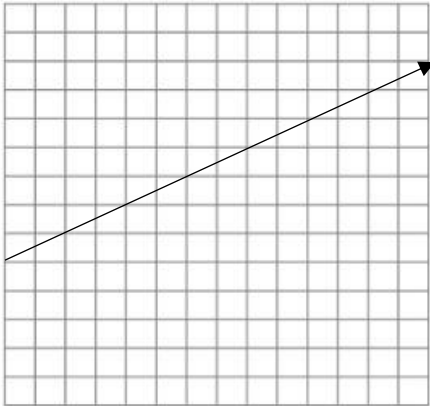


**Thursday:**

1. Look at the graph below. Create a scale and labels on the graph:



Rule for the graph you created: \_\_\_\_\_

Write a story about your graph using the labels you added:

2.  $\bigcirc + \bigcirc + \bigcirc = 27$        $\bigcirc + \triangle + \triangle = 21$

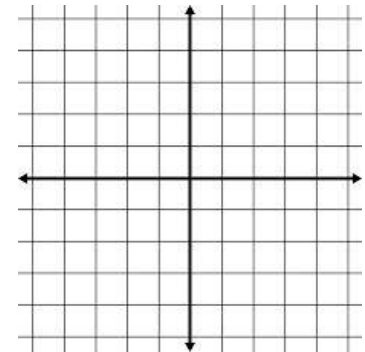
Find the values:  $\triangle =$  \_\_\_\_\_       $\bigcirc =$  \_\_\_\_\_

Because \_\_\_\_\_

3. Graph the lines (on the same graph) using the slope and y-intercept.

a.  $y = -3x + 3$        $m =$        $b =$

b.  $y = 2x - 2$        $m =$        $b =$



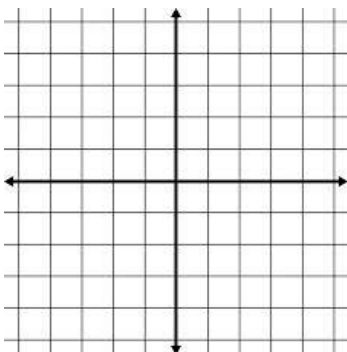
At what point do these lines intersect? \_\_\_\_\_

We call this the \_\_\_\_\_ of the system.

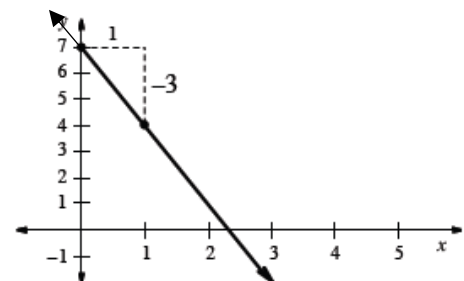
4. Graph  $y = -1 \cdot x^2$

Make sure you scale your y-axis to fit all the values:

-3	-2	-1	0	1	2	3



5.



a. Find the equation of the line above.

b. Is the point  $(15, -38)$  on this line?  
Use math to show why or why not.

**Friday:**

**1. Simplify:**

a.  $-xy - 4x^2 + 3x - 4xy + 8x^2 - 5x$

b.  $-(3x - y) - 2x - 6y + x$

**2.** A bean plant and a pea plant were planted in the same month. When the bean was bought, it was 4 inches tall and grew 5 inches per month. The pea plant was only 1 inch tall and grew 6 inches per month. Create 2 tables of the bean and pea growth and answer the questions:

Bean rule \_\_\_\_\_

Pea rule \_\_\_\_\_

month						
Height (inches)						

month						
Height (inches)						

- a. How many months passed before each plant was the same height? \_\_\_\_\_
- b. How tall were the plants when they were the same height? \_\_\_\_\_
- c. Which plant will be taller in 10 months and why? \_\_\_\_\_

**3. Solve; do the check step:**

a.  $-6x + 16 = -8(x + 2)$  ✓

b.  $2x + 9 - 4x = -(2x - 3) - 6$  ✓

**4. Find the slope and rule and fill in the table:**

0	1	3	5	8	12	41
	9		3			

Slope \_\_\_\_\_

Rule \_\_\_\_\_

**5.**

a. What is 45% of 200?

b. What is one third of 84?

c. What is the tax on an item that is \$45.50 if the tax rate is 8%