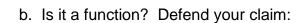
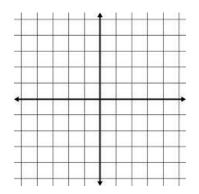
Monday:

1) Graph the data in the table.

Х	-4	0	1	-3	5
У	3	1	1	3	-4

a. Is it linear or nonlinear?





2. Solve each equation. Check by substituting for the variable in the original equation.

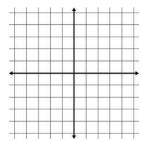
a.
$$-3(x-8) = -2x + 7$$

b.
$$\frac{x}{12} + 8 = -4$$

3. Give an example of a relation that is **not** a function:

a. Mapping:

b. Graph:



4. a. $11\frac{1}{4} - 5\frac{1}{2}$

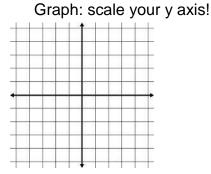
b. $1\frac{3}{4} \cdot 2\frac{1}{6}$ c. $\frac{7}{8} - \frac{11}{12}$

Tuesday:

1)

X	-3	0	2	-1	3
V	2	8			

Equation:_____



2. Find the slope between the 2 points:

- a. (0, 0) and (-4, 5)
- b. (-1, 4) and (3, -1)
- c. (5, -7) and (-3, 1)

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

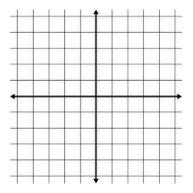
a.
$$y = 3x - 1$$

$$b =$$

is the slope positive or negative?_____

b.
$$y = -\frac{3}{2}x + 3$$
 m =

is the slope going uphill or downhill?_____



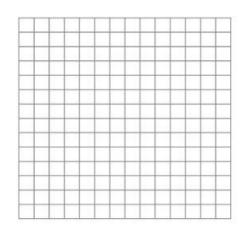
4. Write the rule for the linear function given in the table and complete the table:

X	-2	0	2	5	22
٧	8		10		

Rule:_____

Wednesday:

1. You have \$180 in the bank and each week you take out \$25 for spending money Graph using appropriate scale:



Interpret the slope in the context of this problem:

Interpret the y-intercept in the context of this problem:

In how many weeks will you run out of cash?

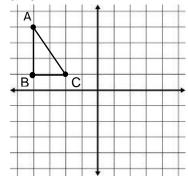
2. Solve each equation. Check by substituting for the variable in the original equation.

a.
$$-3(x-4) = 3x + 8$$

b.
$$5(x + 6) = 2x + 30 + 3x$$



3. Rotate the image 180° then reflect the image over the x-axis



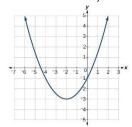
4. Using the digits 1 to 9, at most one time each, create an equation where x is a positive value. Show that your equation has a positive solution.

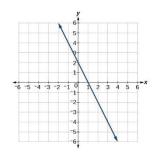
$$\square x + \square = \square x - \square$$

2nd Image Coordinates:

a.						
Х	-3	1	2	5	11	
У	-3	5	7	13	25	

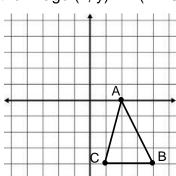
b.



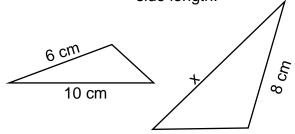


Thursday:

1. Reflect the figure over the *y*-axis then translate 2. The triangles are similar. Find the missing the image $(x, y) \longrightarrow (x + 3, y + 4)$



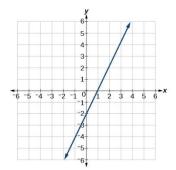
side length.



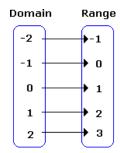
2nd Image Coordinates:

3. Use the graph or mapping diagram to write a linear function that relates *y* to *x*.

a.



b.



4. Find the value of y for the given value of x:

a.
$$y = -4x + 2$$
; $x = -20$

b.
$$y = -65 - 21x$$
; $x = -2$ c. $y = -2x^2$; $x = 9$

c.
$$v = -2x^2$$
: $x = 9$

5. Tell if the following functions are linear or nonlinear and defend your claim: (if it is linear, write the slope and y-intercept).

a.
$$y = 8 - 5x$$

b.
$$y = 3x^2$$

c.
$$y = \frac{x}{5} - 3$$