Math 8CP Homework
December 18-19, 2018

Name _____
Per ____ Date _____

Tuesday:

1. Find the slope and the y-intercept given this information:

a. y = 2x – 5 slope_____ y-intercept_____ b. $y = 6 - x$ slope_____ y-intercept_____

c. A college charges $303 a unit with a $265 registration fee: slope_____ y-intercept_____
What rule would represent this situation?_____

2. Simplify:

a. $-4xy - 5x^2 + 2x + 7x^2 - 5x$ b. $-7(3x - 4) - 2x + 19 - 14y$

3. You have a savings account with $40 in it and you are depositing $50 each month.

a.Fill in the table representing your account balance:

0	1	2	3	4	5	8

b. Graph it using appropriate scale (and label!):

c. What is the rule for your savings account?
_____

d. In how many months will you have $500?
_____

e. What does your slope represent?

_____

4. Solve:

a. $-3(x - 2) = -5x + 8$ **b.** $3x + 7 - x = 4 - 13 + 2x$

5. Fill in the table and draw Figures 1, 2, 3 & 4 and write the rule:

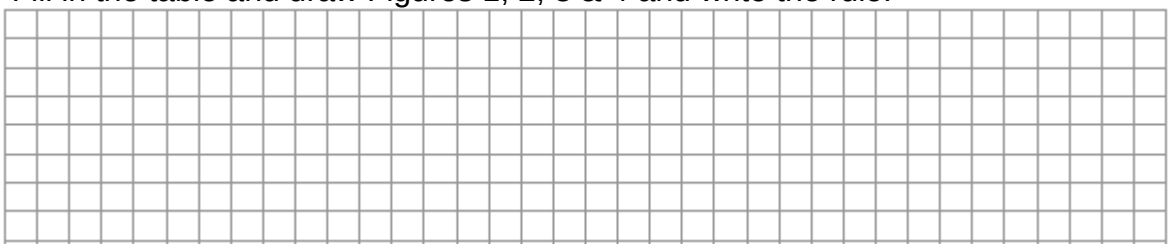


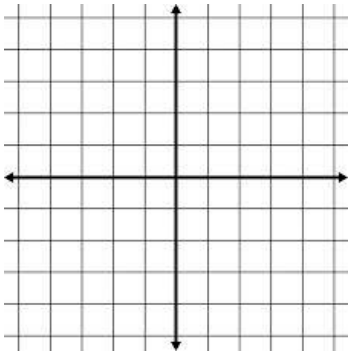
Fig # (x)	-4	-3	-2	-1	0	1	2	3	4
Total tiles (y)		28					13		

Rule_____

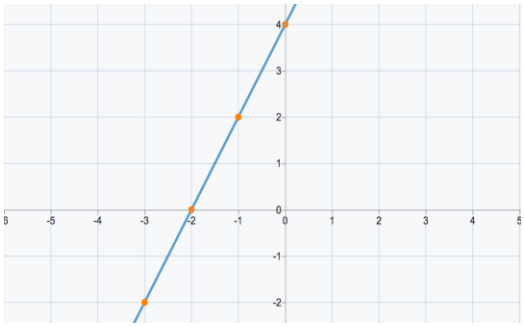
Wednesday:

1. Graph y = 5x – 4
Make sure you scale your y-axis to fit all of the values:

-3	-2	-1	0	1	2	3



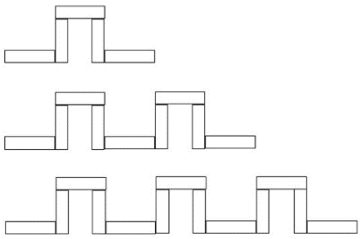
2. Find the equation of the line given:



y = _____

Is the point (-80, -164) on this line?
Prove mathematically why or why not.

3. Find the rule of the following pattern and fill in the table: *(Count the bars.)*



0	1	2	3	7	43	
						141

Rule:

4. Find the slope and rule and fill in the table (HINT: the slope is a fraction!!)

0	1	3	5	7	9	41
		8	11	14		

Slope _____

Rule_____

5. Graph both lines on the same grid using the slope and y-intercept (without using a table)

a. y = -3x + 2 slope=_____
y-intercept =_____

b. $y = \frac{3}{4}x - 1$ slope=_____

y-intercept =_____