

1. Which **table** below represents a linear relationship and why? _____

Table A

X	Y
4	15
8	18
12	21
16	24

Table B

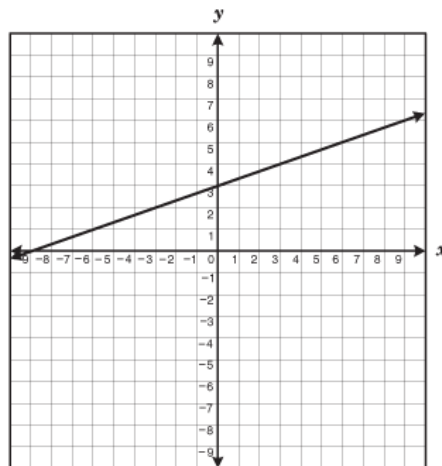
X	Y
1	-1
0	-4
2	-7
3	-10

2. Using the **table** from above that represents a linear relationship:

- a. What is the rise? _____
- b. What is the run? _____
- c. What is the slope (m)? _____
- d. What is the y-intercept (b)? _____
- e. Write the equation in slope-intercept form. _____

3. Find the slope (m) and the y-intercept (b) of from the graph. Then write the equation of the line.

- a. What is the rise? _____
- b. What is the run? _____
- c. What is the slope (m)? _____
- d. What is the y-intercept (b)? _____
- e. Write the equation in slope-intercept form. _____



4. For each equation, identify the slope (m) and the y-intercept (b).

a. $y = -4 + \frac{1}{2}x$

m = _____

b = _____

b. $y = 2x - 5$

m = _____

b = _____

c. $y = 3 - 9x$

m = _____

b = _____

5. Juan is trying to qualify for the Junior Olympics in the free style swimming event. He is training each day to prepare. He has already swam 50 laps and needs to swim 100 laps per day to meet his goal by the end of the month.

a. What is the slope (m) in the context of the story problem? _____

b. What is the y-intercept (b) in the context of the story problem? _____

c. Write the equation from the story problem in slope-intercept form? _____

6. Name the four types of slope and draw them.

Types of Slope	Draw an example of the Line

7. In the first column, name the four faces of a linear function. In the second column, write how you know each face is linear.

Four Faces	How do you know each face is linear?