Assignment # 24

On **GRAPH PAPER** In pencil Show your work.

1. Fill in the missing values in the table:

X	Y
-2	-4
0	0
1	2
4	8

2. Write an equation that matches the table above. Y = _____?_____

3. Graph the line given in the table. LABEL THE LINE WITH ITS EQUATION. DRAW ARROWS AT EACH END.

4. Now make a table of values for the equation **y = 4x.** $-2 \leq x \leq 2$. **Graph the resulting points on the same set of axes you graphed the other line.**

x	4 (x)	y	(x, y)
-2	4 (-2)	-8	(-2, -8)
-1			
0			
1			
2			

5. Compare and contrast the two lines you graphed. How are they similar? How are the different?

   (Hints: Do they increase at the same rate? Which one is steeper?)

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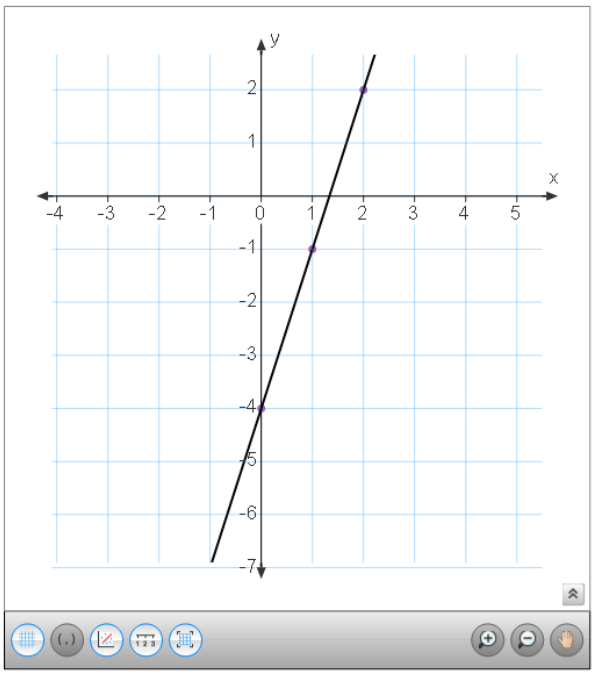
On **GRAPH PAPER** In pencil Show your work.

Find the slope and y- intercept of each line:

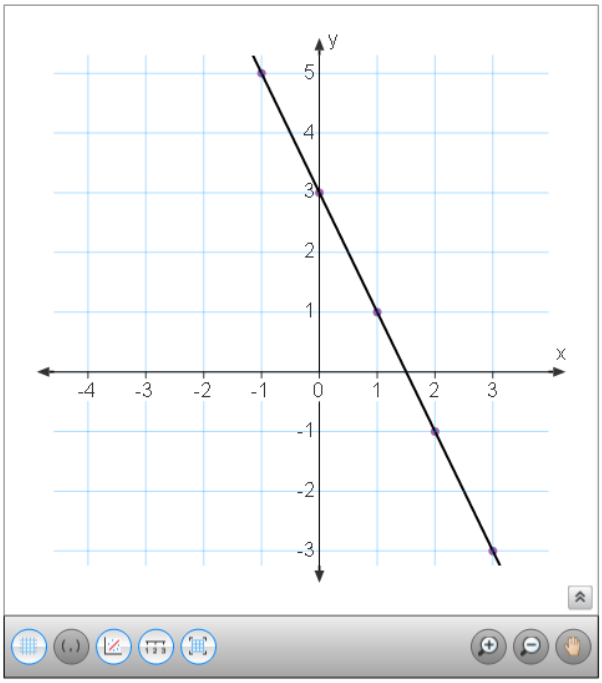
6.



Slope = _____

Y intercept = _____

7.



Slope = _____

Y intercept = _____

8. The general equation of a line is $y = m x + b$, where m is the slope and b is the y-intercept. Knowing this, what would be the two equations for the lines in questions 2 and 3 above?