Name: _

Day 5: Writing Linear Equations

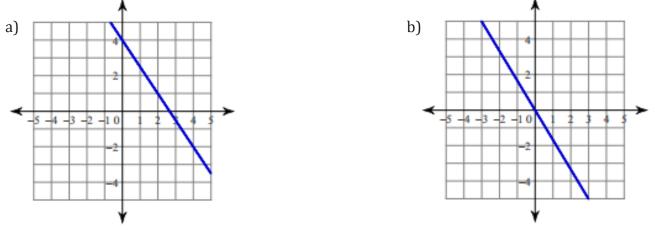
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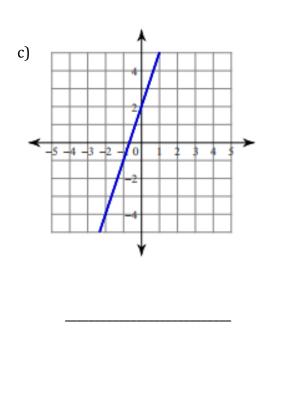
Writing Linear Equations

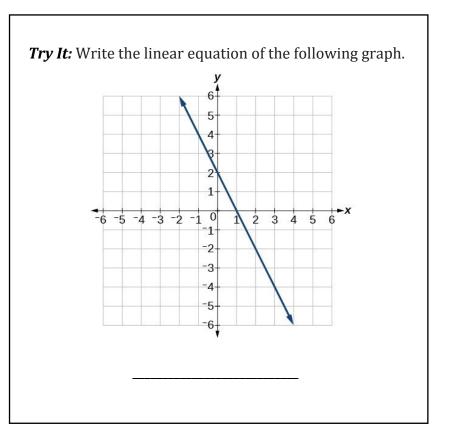
FROM A GRAPH:

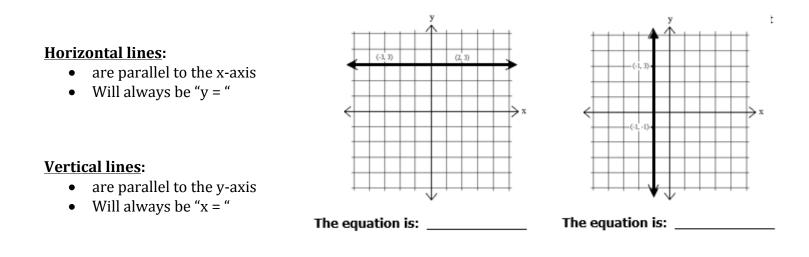
- 1. identify **2 points**
- 2. use these 2 points to count the **slope**
- 3. identify the **y-intercept**
- 4. **substitute** these two values into the equation **y** = **mx** + **b**

Example 1: Write the equation of the lines below in slope-intercept form.









b)

FROM A TABLE:

- 1. use the **slope formula** and any 2 coordinates to find the slope
- 2. identify the **y-intercept**
- 3. **substitute** these two values into the equation **y** = **mx** + **b**

Example 2: Write the linear equation for each table below.

a)

x	0	1	2	3	4	
У	3.5	4.5	5.5	6.5	7.5	

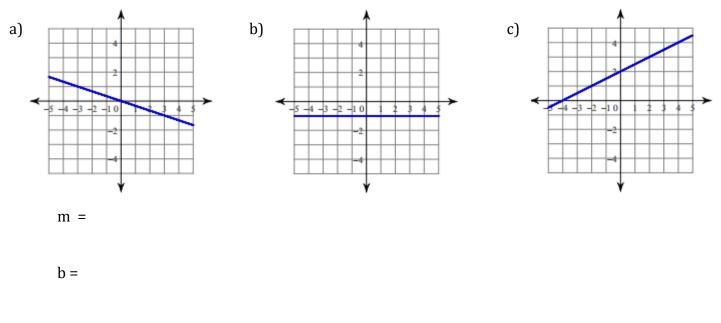
x	0	1	2	3	4
у	5	3	1	-1	-3

Try It: Write the linear equation from the table below.

x	у
0	-3
2	2
4	7
6	12

On your own!

1. Write the equation of each linear function shown in the coordinate plane below.



2. Write a linear equation from the following tables.

X	0	1	2	3	4	a)
У	6	7	8	9	10	

X	0	1	2	3	4	b)
У	3	-1	-5	-9	-13	