

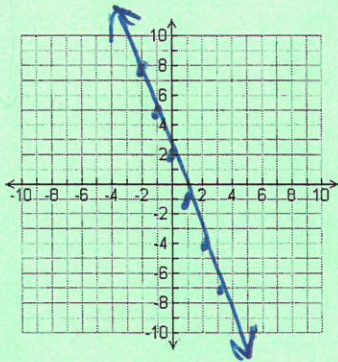
Graphing Slope-Intercept Equations

**Objective:** Students will begin to investigate the relationship between two variables in a function. Students will see the slope and y-intercept emerge in the table of values.

Using the table given, choose values for  $x$ , find their corresponding  $y$  values, and then plot the ordered pairs on the graph. Connect the points to graph the lines.

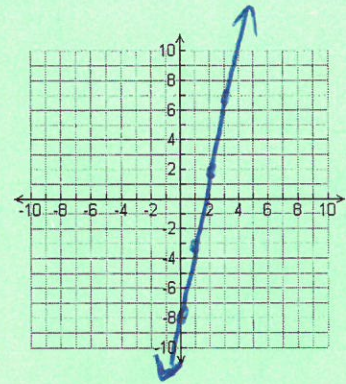
1.  $y = -3x + 2$

X	Y
-2	8
-1	5
0	2
1	-1
2	-4
3	-7



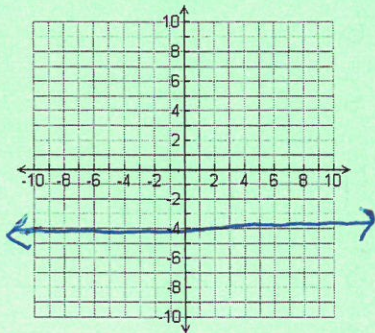
2.  $y = 5x - 8$

X	Y
-1	-13
0	-8
1	-3
2	2
3	7
4	12



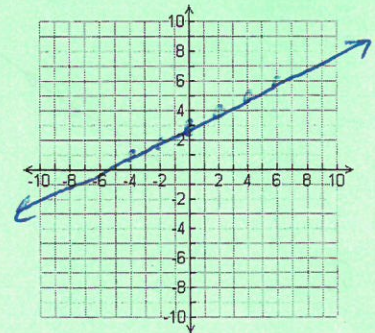
3.  $y = -4$

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



4.  $y = \frac{1}{2}x + 3$

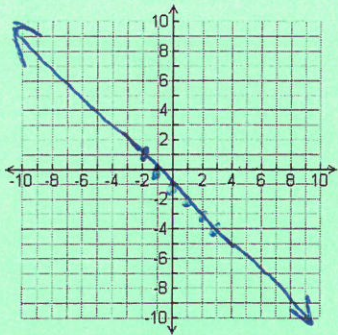
X	Y
-4	1
-2	2
0	3
2	4
4	5
6	6





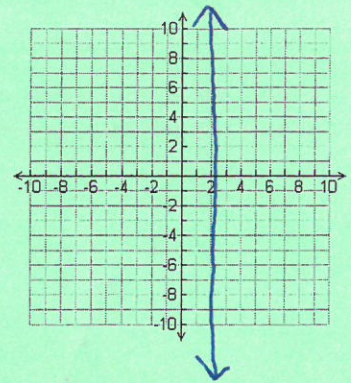
5.  $y = -x - 1$

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



6.  $x = 2$

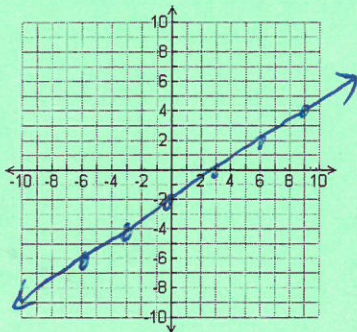
X	Y
2	
2	
2	
2	
2	
2	



*y can be anything you like.*

7.  $y = \frac{2}{3}x - 2$

X	Y
-6	-6
-3	-4
0	-2
3	0
6	2
9	4



8.  $y = -\frac{1}{4}x + 5$

X	Y
-8	7
-4	6
0	5
4	4
8	3
12	2

