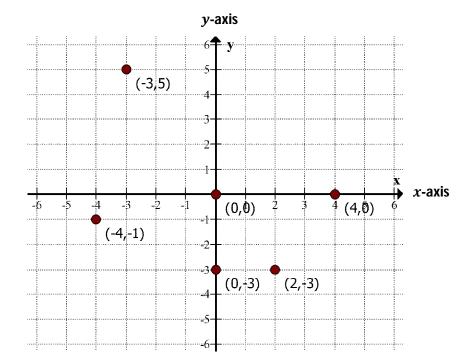
## M8 - 9.1 - Plotting Points Graph Notes

(x, y) A point on a graph is given by an "ordered pair"

$$\begin{array}{ccc}
x & y \\
\downarrow & \downarrow \\
(3,4) & (x,y)
\end{array}$$

Plot the following table of values:

x	у	Ordered Pairs
2	-3	(2, -3)
-4	-1	(-4, -1)
-3	5	(-3, 5)
0	0	(0,0)
4	0	(4,0)
0	-3	(0, -3)

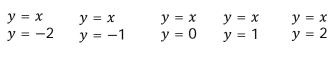


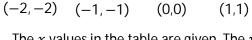
## Steps to plot a point:

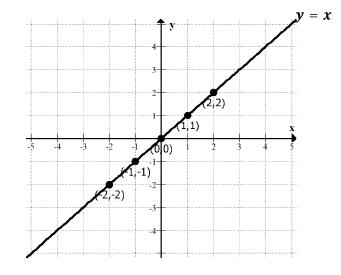
- 1. Find the x point on the x-axis. (The number in the left of the brackets.)
- 2. Go straight up or down to the *y* point. (The number on the right of the brackets).
- 3. Draw and label the point.

## M9 - 9.2 - Graphing TOV: y = x, x + 1.2x Notes

y = x		Ordered
x	y	Pairs
-2	-2	(-2, -2)
-1	-1	(-1, -1)
0	0	(0,0)
1	1	(1,1)
2	2	(2,2)





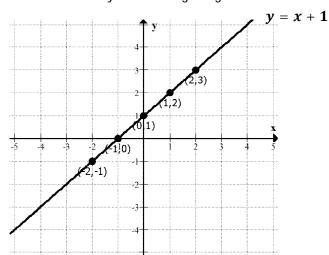


The x values in the table are given. The y values in the table must be solved by substituting the given x values in the table into the equation y = x.

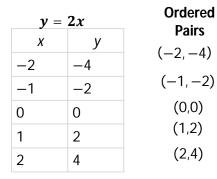
(2,2)

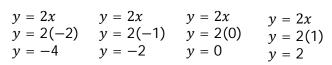
y = 3	x + 1	Ordered
x	y	Pairs
-2	-1	(-2, -1)
-1	0	(-1,0)
0	1	(0,1)
1	2	(1,2)
2	3	(2,3)

$$(-2,-1)$$
  $(-1,0)$   $(0,1)$   $(1,2)$ 

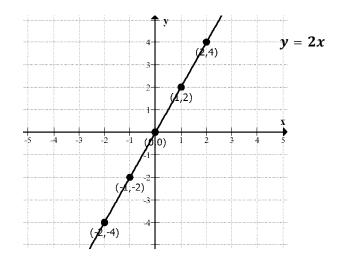


Notice: the graph of y = x + 1 is the graph of y = x, moved up 1.





$$(-2, -4)$$
  $(-1, -2)$   $(0,0)$   $(1,2)$ 



Notice: the graph of y = 2x is the graph of y = x twice as steep.

## M9 - 9.2 - Graphing TOV: y = 2x + 1 Notes

Graphing using a table of values.

y=2x+1
y=2x+1

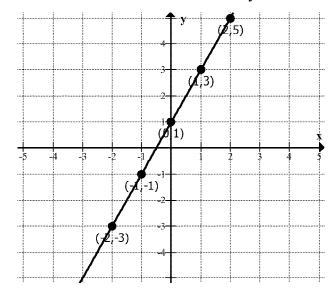
x	y
-2	-3
-1	-1
0	1
1	3
2	5

Ordered Pairs

$$(-2, -3)$$
  
 $(-1, -1)$   
 $(0,1)$   
 $(1,3)$ 

$$y = 2x + 1$$
  $y = 2x + 1$   $y = 2(-2) + 1$   $y = 2(-1) + 1$   $y = 2(0) + 1$   $y = -4 + 1$   $y = -2 + 1$   $y = 0 + 1$   $y = 1$   $(-2, -3)$   $(-1, -1)$   $(0,1)$ 

y=2x+1



Notice: the graph of y = 2x + 1 is the graph of y = x twice as steep and up 1.