Name _____ Date _____

Interpreting Slope and Intercept - Guided Lesson Explanation:

Explanation#1

By plotting ordered pairs we can graph a function.

We make up values for x and in the process we calculate the value of y.

x = 0

y = x + 2

y = 0 + 3

y = 2

(0, 2) is the point on the graph.

x = 1

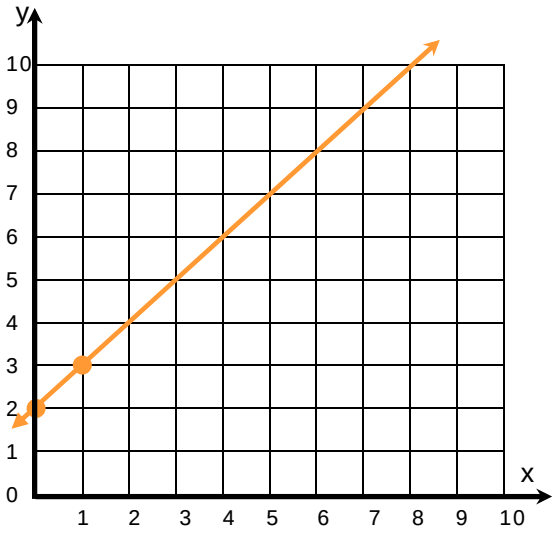
y = x -2

y = 1 + 3

y = 3

(1,3) is the point on the graph.

Now we will plot the points (0, 2) and (1,3) on the graph. And the equation y = x = 2 is the straight line connecting the points (0,2) and (1, 3).



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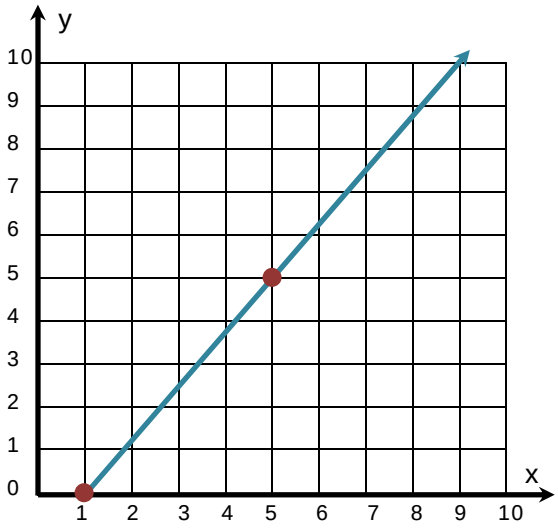
Explanation # 2

We should know that slope $= \frac{\text{change in y}}{\text{change in x}}$

We find that two points on the line are (1,0) and (5, 5). Now we will put the points in slope formula.



slope $= \frac{\text{change in y}}{\text{change in x}}$

$$= \frac{5-0}{5-1} = \frac{5}{4}$$

So, the slope is 5/4.

Explanation # 3

We will plot the point in the graph according to the given data.