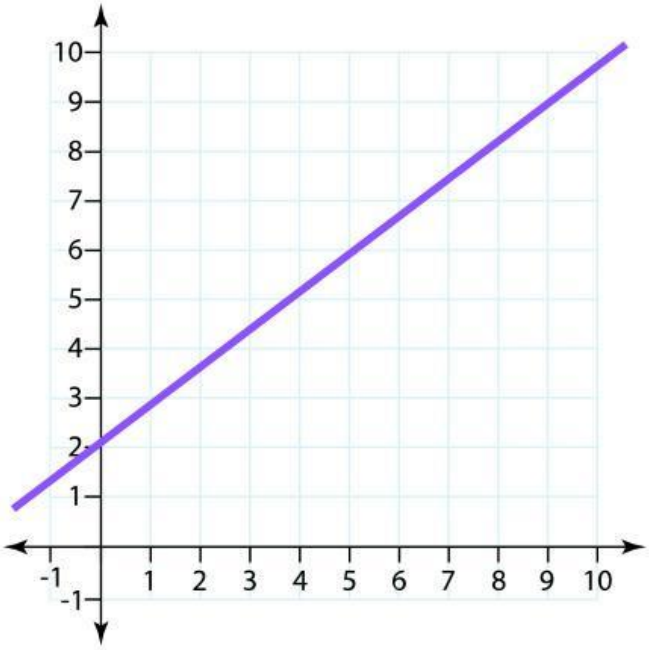
Name : Class :

Learning Objective: To determine the linear equation of 2 points

Linear Equation with 2 Points

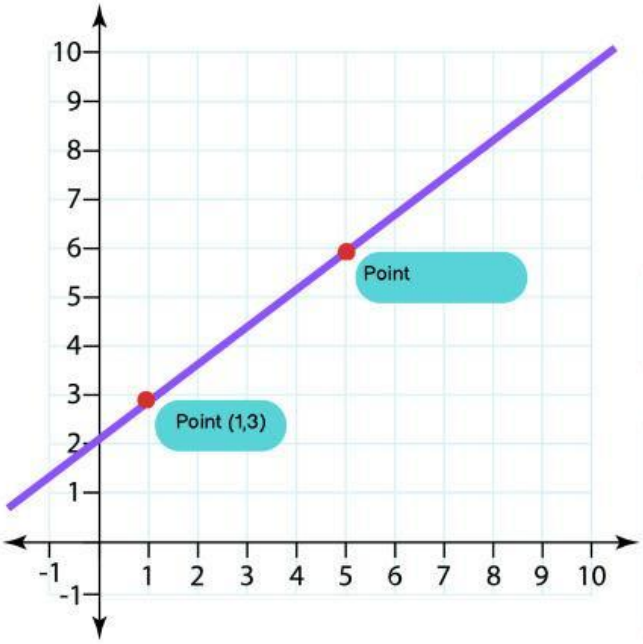
Find a linear equation from this graphic with 2 poins!



Ica found this linear graph in her book. She too curios about the line equation of the graph. Please help Ica to solve this problem!

Watch this video before answer this question!

First of all, determine 2 point who passed the graphic.



oke, now we have two points: there are point (1,3) and

Point (1, 3)
x1, y1

Point ( )
x2, y2

To solve this question, we use formula line equation with 2 point. Check the formula in internet!

Formula (RUMUS) :

$$\frac{y - y1}{y2 - y1} = \frac{x - x1}{x2 - x1}$$

Point (1, 3)
x1, y1

Point (5, 6)
x2, y2

$$\frac{y - 3}{\ldots\ldots - 3} = \frac{x - 1}{\ldots. - \ldots.}$$

$$\frac{y - 3}{\ldots\ldots} = \frac{x - 1}{4}$$

$$\frac{y - 3}{\ldots\ldots} = \frac{x - 1}{\ldots\ldots}$$

Kali Silang

$$4(y - 3) = 3(x - 1)$$

$$4y - \ldots. = 3x - \ldots.$$

$$4y = 3x + \ldots$$

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

So, the line equation from graph below is :

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