Graph Linear Equations by Plotting Points

It takes only 2 points to draw a graph of a straight line. In other words, if we can find two points that satisfies the equation of the line, then the line can be accurately drawn. (You may plot more than two points to check)

Example :

Draw the line with equation $y = 2x - 3$

Solution :

Choose any value for x and substitute into the equation to get the corresponding value for y. If possible, try to choose values of x that will give whole numbers for y to make it easier to plot.

Step 1 : Let $x = 0$

$y = 2(0) - 3$
$y = -3$

Step 2 : Let $x = 2$

$y = 2(2) - 3$
$y = 1$

Step 3 : Plot the two points on the Cartesian plane

Step 4 : Draw a straight line passing through the two points