

Straight Line Graphs

Facts

A straight line graph in maths usually refers to a graph with an equation $y = mx + c$. To plot a straight line graph, you need to find x and y values that satisfy the equation.

Straight Line Graphs

A **straight line graph** is a visual representation of a linear function.

A straight line has a general equation of

$$y = mx + c$$

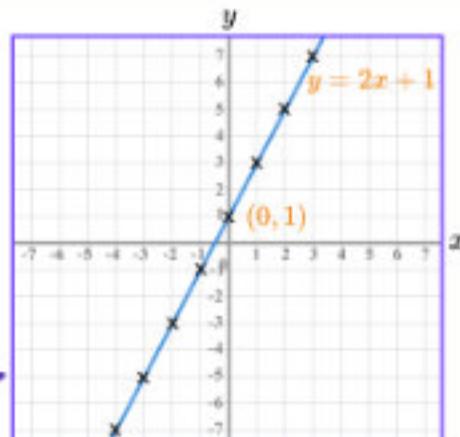
gradient y-intercept

Example

$$y = 2x + 1$$

$$m = 2, \text{ and } c = 1$$

The graph of this equation looks like this:



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Plotting Graphs

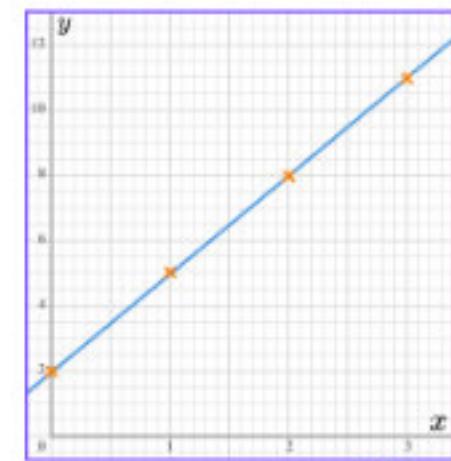
Plotting graphs is when we accurately draw graphs of functions.

To do this we need to find their x -coordinates and their y -coordinates.

Example: $y = 3x + 2$

x	0	1	2	3
$y = 3x + 2$	2	5	8	11

Substitute each x value to get the corresponding y value



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