

16 Drawing and recognising a graph of a linear equation

Example

Write down the equation of each line shown below.



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

$$y = 1$$

b $(5, -1)$ $(5, 1)$ $(5, 2)$ $(5, 4)$

$$x = 5$$

Write down a few points on the line.

For each point, the x -coordinate is always 1.

Write down a few points on the line.

For each point, the x -coordinate is always 5.

Exercise 16A Equations of vertical and horizontal lines



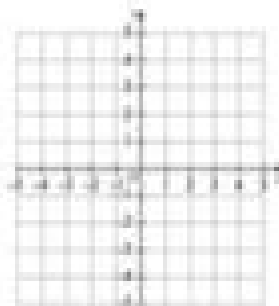
1

Draw a coordinate grid with x - and y -axes from -5 to 5.

a Plot these points on the grid.

$(-1, 3)$ $(4, 3)$ $(1, 3)$ $(-3, 3)$ $(0, 3)$

b Draw a line through the points you have plotted. Write the equation of the line.



2

Draw a coordinate grid with x - and y -axes from -5 to 5.

a Plot these points on the grid.

$(4, 1)$ $(4, -2)$ $(4, 0)$ $(4, -5)$ $(4, 6)$

b Draw a line through the points you have plotted. Write the equation of the line.

3

Draw a coordinate grid. Draw the graph of the lines with the following equations.

a $x = 5$

b $x = 2$

c $y = 2$

d $y = -3$

e $x = -2$

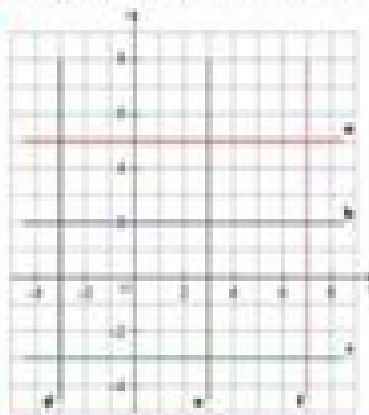
f $y = 7$

g $x = -4$

h $y = -2$

1

Write the equation of each coloured line shown.



Example

a Copy and complete the table of values for $y = 3x + 1$.

b Draw the line $y = 3x + 1$.

c What is the gradient of the line?

d Write the coordinates of the point where the line $y = 3x + 1$ crosses the y -axis.

x	1	2	3
y			

a $y = 3 \times 1 + 1 = 4$ giving $(1, 4)$

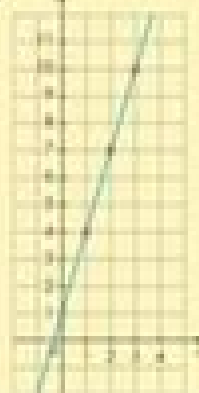
$y = 3 \times 2 + 1 = 7$ giving $(2, 7)$

$y = 3 \times 3 + 1 = 10$ giving $(3, 10)$

x	1	2	3
y	4	7	10

Substitute each x -coordinate into the equation.

b



Plot the points $(1, 4)$, $(2, 7)$ and $(3, 10)$ on a coordinate grid. Connect them with a straight line.

c. Gradient = $\frac{\text{vertical}}{\text{horizontal}}$
 $= \frac{3}{1} = 3$

Or you can compare $y = 3x + 1$ with the equation $y = mx + c$. The value of m is the gradient.

d. Line crosses y -axis at $(0, 1)$

Compare with the equation $y = mx + c$. The value of c is the y -intercept. Check by inspecting the graph you have drawn.

National 4 Maths

RC Schank



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