Mathematics

$$y = mx + c$$

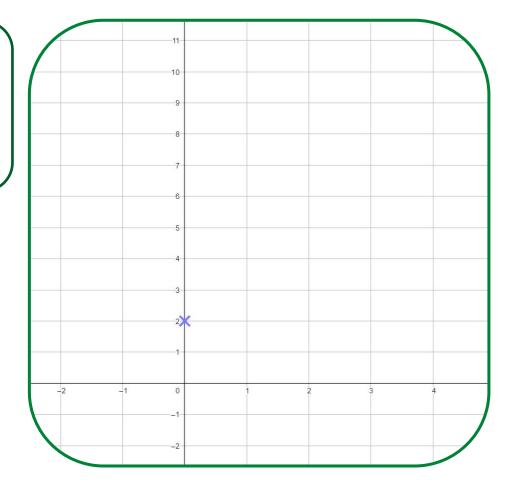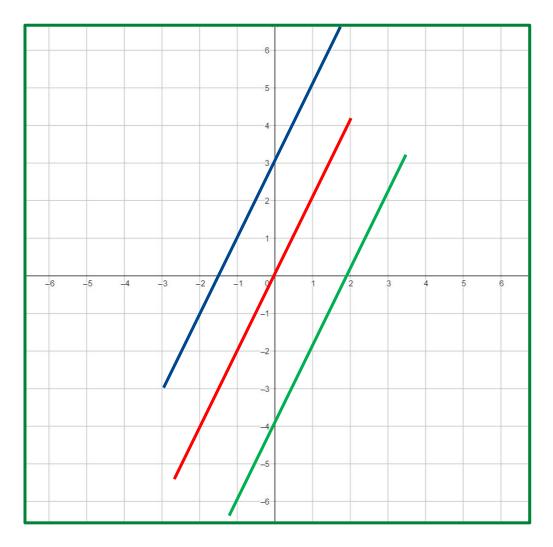**Downloadable Resource**

Mr Maseko

Try this

I'm thinking of a linear graph with a gradient of **2** that goes through **(0, 3)**.
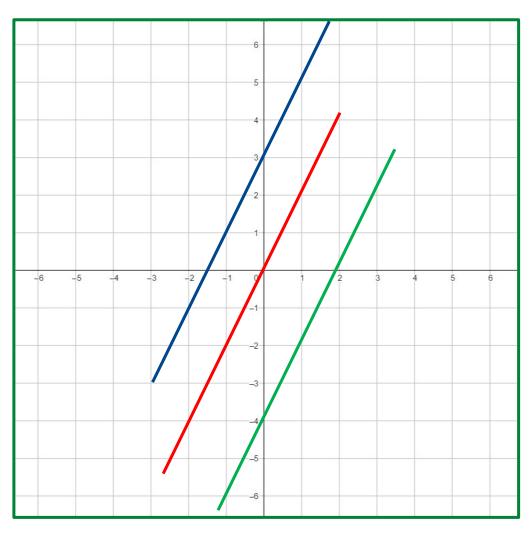
What other coordinates are of Binh's line?

Connect

What is the equation of each of the lines?

What is the same?

What's different?

Connect

y = mx + c

This is the general form that equations of lines are written in.

y = **2**x **+ 3**

y = **2**x

y = **2**x **- 4**

Independent task

1) For each of the following equations state the gradient and the y-intercept coordinate.

a) $y = 2x + 1$

b) $y = 3x - 1$

c) $y = 5x + 4$

d) $y = 5 - 2x$

2) A line has a gradient of 4 and goes through the point (0,4). What is the gradient of the line?

Explore

$$y = \boxed{}\, x - \boxed{} \text{ will pass through the point } (\boxed{}, \boxed{})$$

Use these cards to fill the spaces and make an accurate statement

| 1 | 3 | 5 | 7 | 9 |

| 2 | 4 | 6 | 8 |