Find the equation of a straight line using y = mx + c
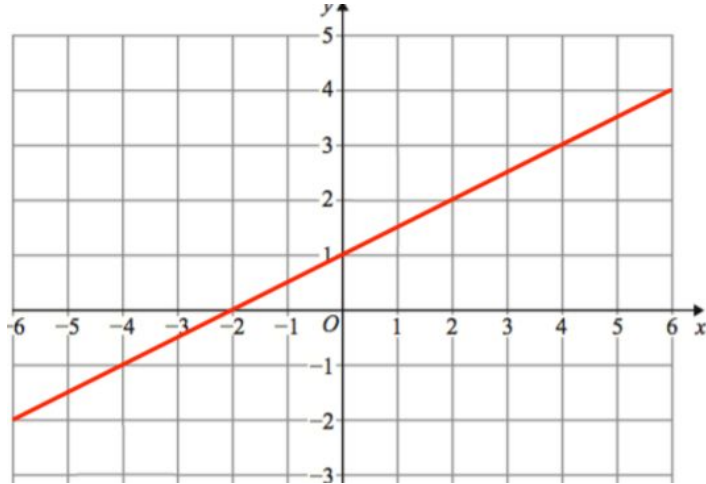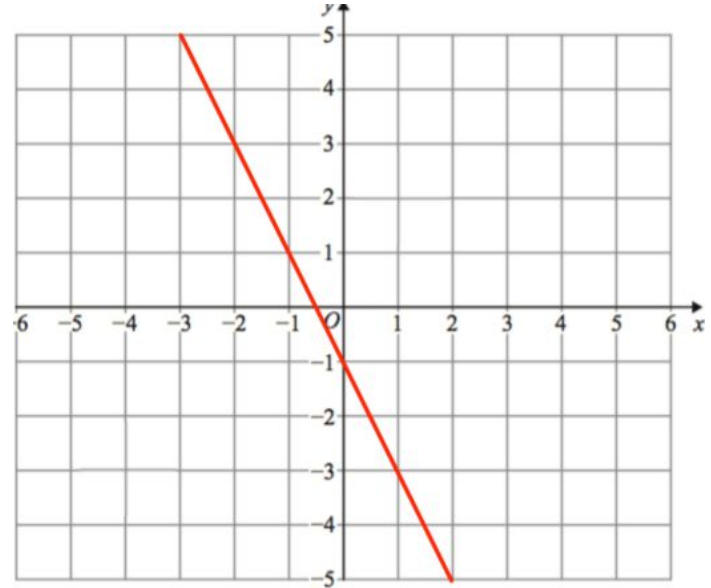
Maths

Mr Clasper

Find the equation of a straight line using y = mx + c

1. A straight line is shown on the grid.

a) Work out the equation of the line.

2. A straight line is shown on the grid.

a) Work out the equation of the line.

Find the equation of a straight line using y = mx + c

3. A line has equation y = 3 – 2x

a) Find the gradient of the line.

b) Find where the line crosses the y-axis.

4. The point A (–3, 5) and the point B (1, –15) lie on the line M.
Find the equation of the line M.

5. The equations of four lines are given below.

Line A y = 4x + 1
Line B y = -4x - 1
Line C y = 5 + 2x
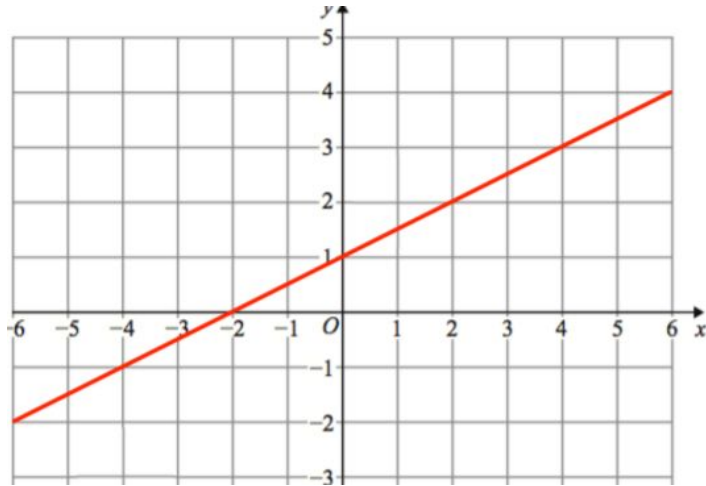**Line D** y = 2x + 6

Which lines go through the point (2, 9)?

Answers

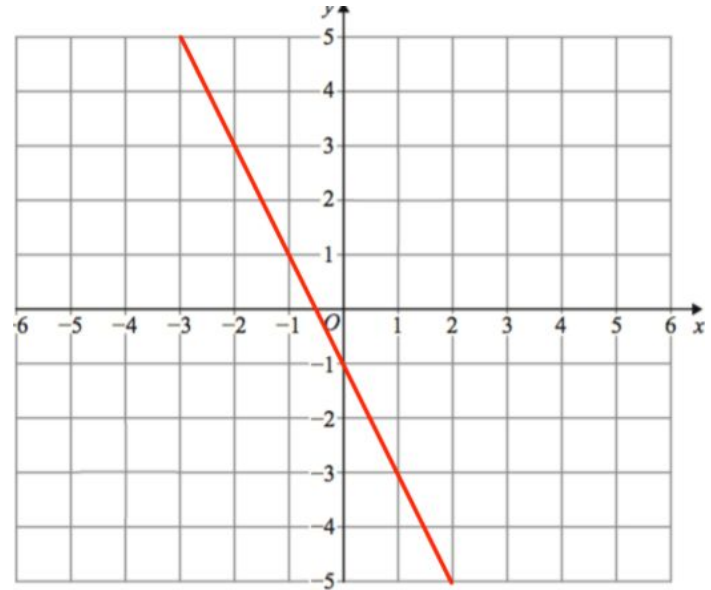# Find the equation of a straight line using y = mx + c

1. A straight line is shown on the grid.

a) Work out the equation of the line.

$$y = 0.5x + 1$$

2. A straight line is shown on the grid.

a) Work out the equation of the line.

$$y = -2x - 1$$

Find the equation of a straight line using y = mx + c

3. A line has equation $y = 3 - 2x$

a) Find the gradient of the line.

-2

b) Find where the line crosses the y-axis.

(0, 3)

4. The point A (−3, 5) and the point B (1, −15) lie on the line M.
Find the equation of the line M.

$y = -5x - 10$

5. The equations of four lines are given below.

Line A $y = 4x + 1$

Line B $y = -4x - 1$

Line C $y = 5 + 2x$

Line D $y = 2x + 6$

Which lines go through the point (2, 9)?

Lines A and C