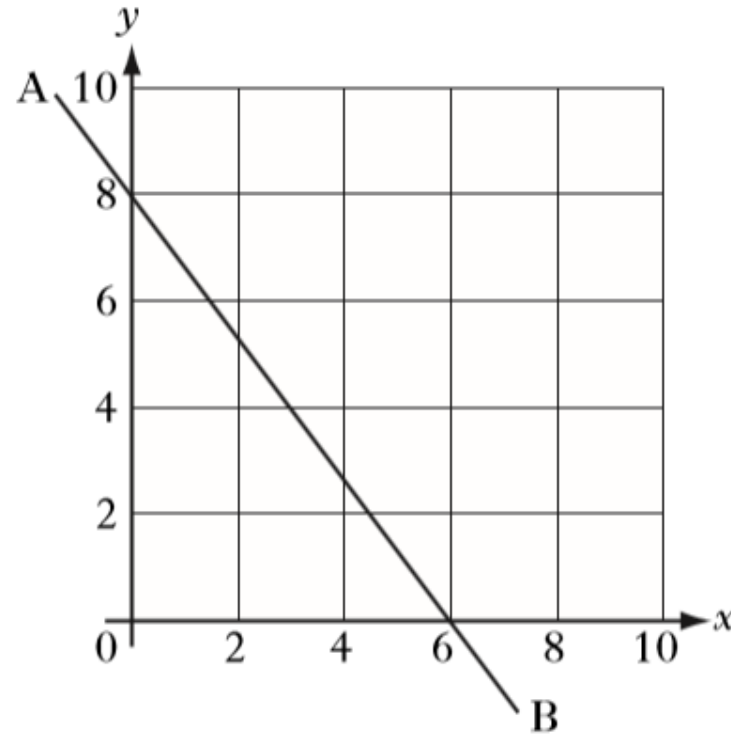


# Equation of a Straight Line

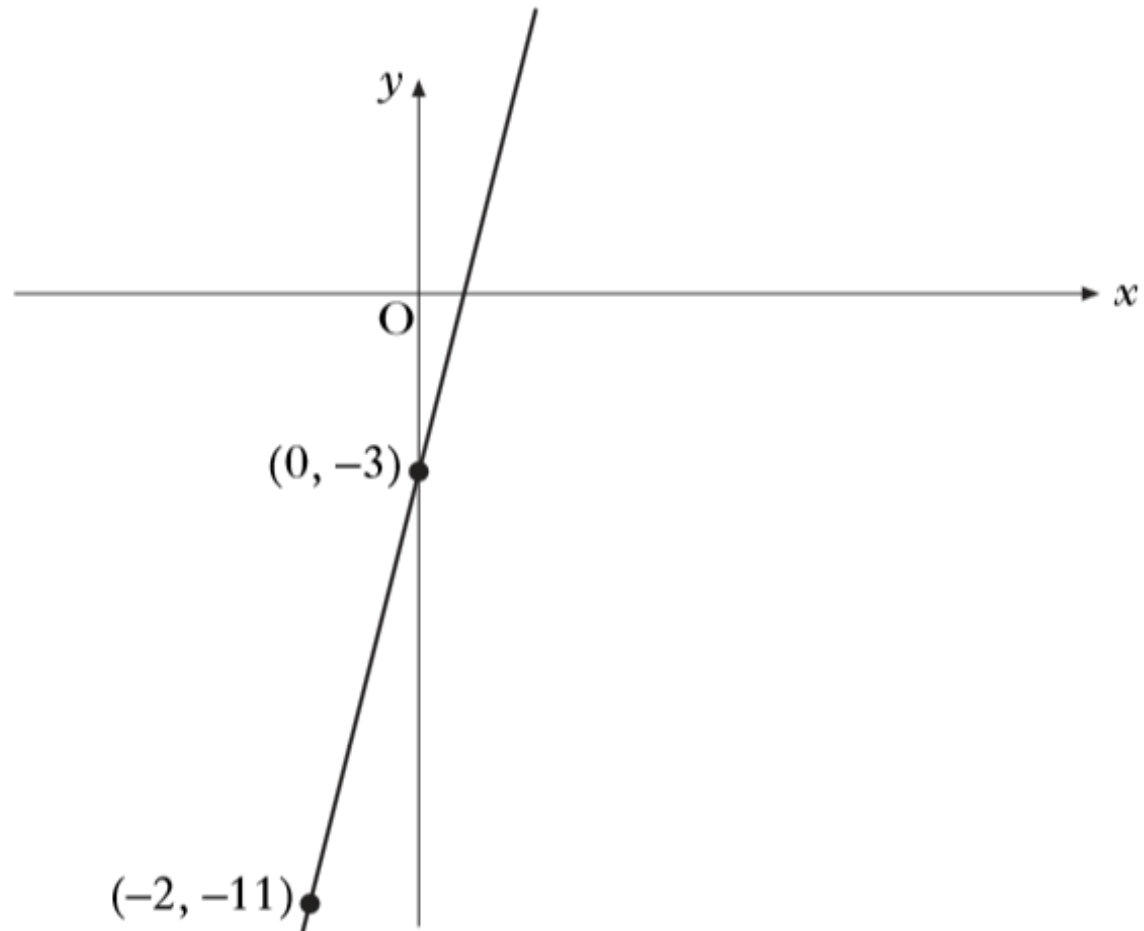
1)



Find the equation of the straight line AB shown in the diagram.

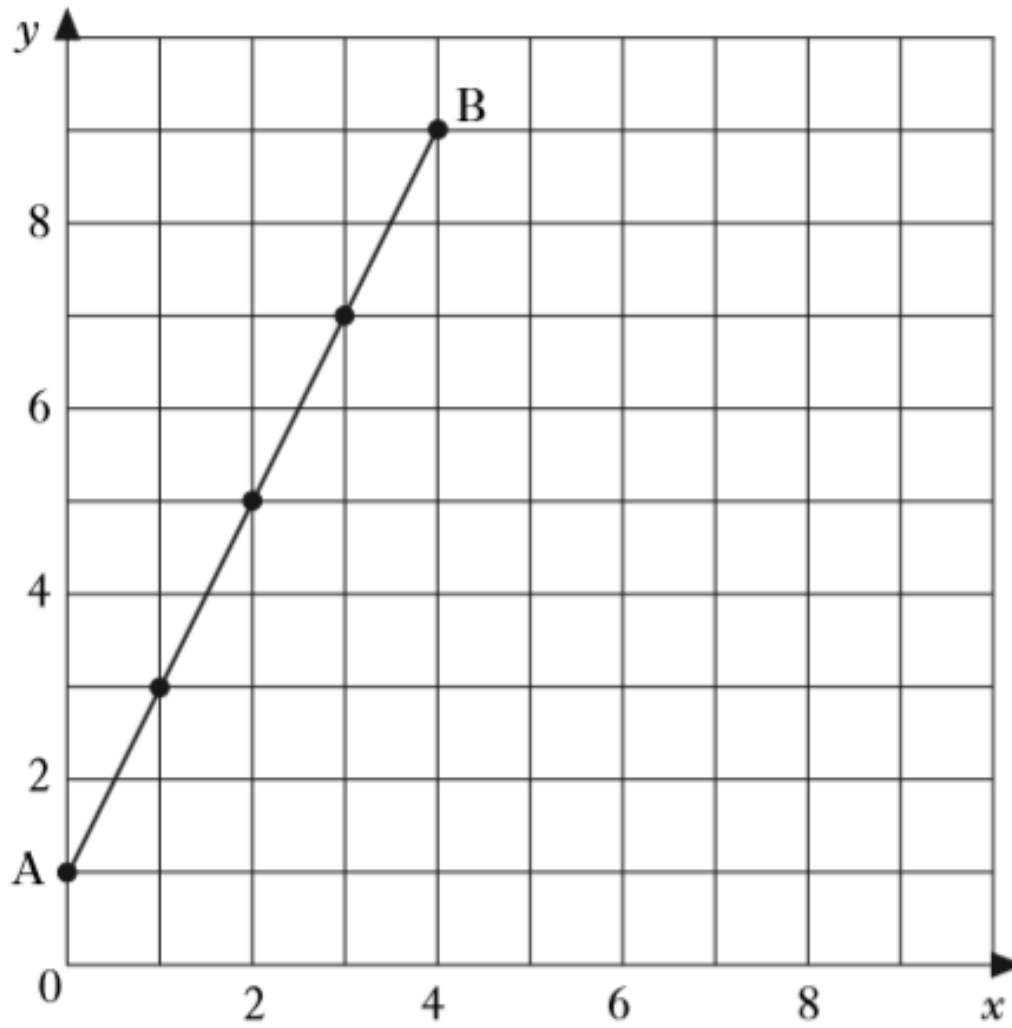
3

2)



Find the equation of the straight line passing through the points  $(0, -3)$  and  $(-2, -11)$ .

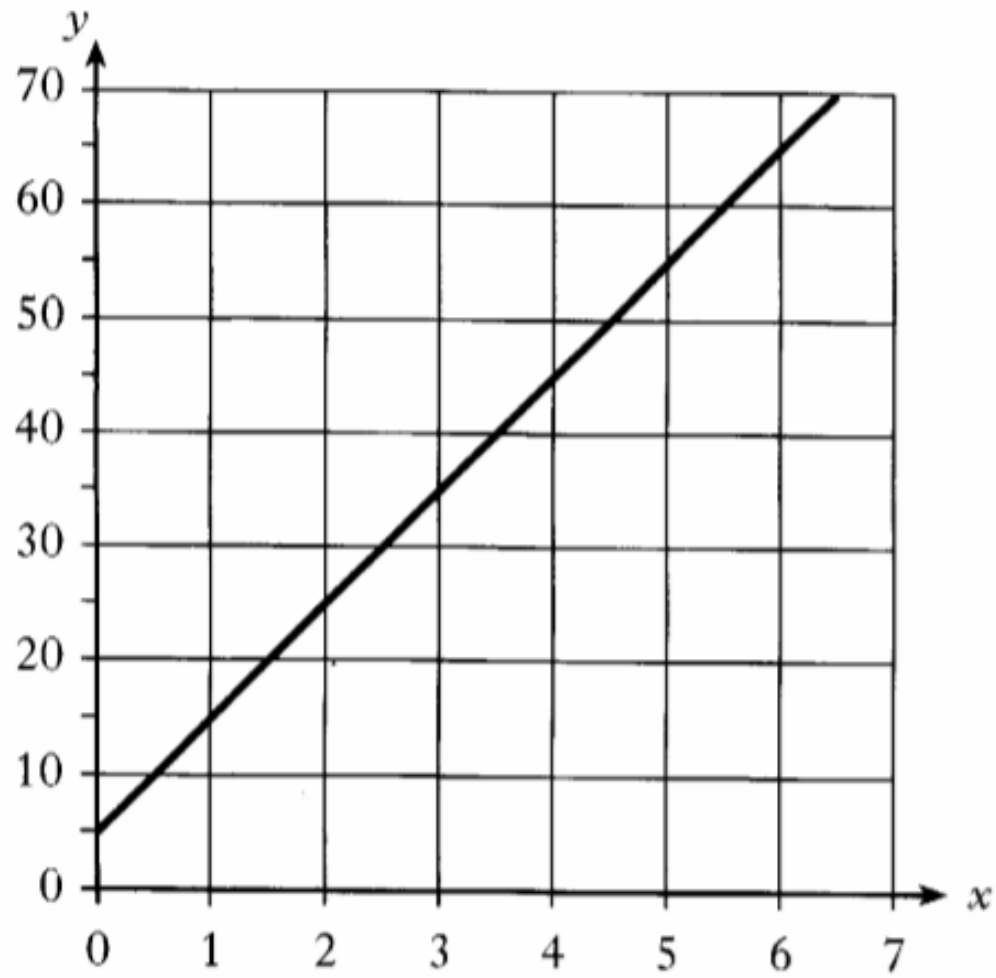
3)



Find the equation of the straight line AB.

(3)

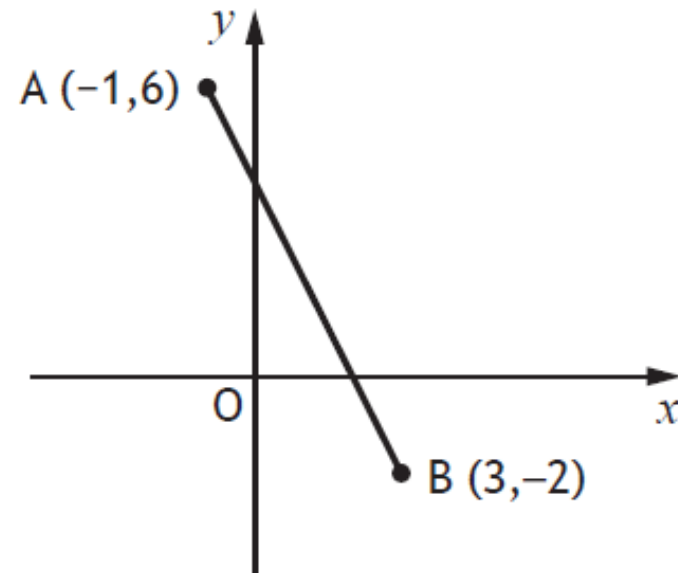
4)



Find the equation of the straight line.

5)

The diagram below shows the straight line joining points A and B.



Find the equation of the line AB.

Give the equation in its simplest form.

6)

A straight line is represented by the equation  $x + y = 5$ .

Find the gradient of this line.

2

7)

A straight line is represented by the equation  $y = mx + c$ .

Sketch a possible straight line graph to illustrate this equation when  $m < 0$  and  $c > 0$ .

2

8)

A straight line has equation  $2y + 3x = 12$ .

(a) Find the gradient of this line.

2

(b) The line crosses the  $y$ -axis at  $(0, c)$ .

Find the value of  $c$ .

1