

SQA Past paper questions

2024 - Paper 1 - Question 11

A straight line has equation $x + 4y - 24 = 0$.

Find the gradient of this line.

2

Click [here](#) for video solution. 

2022 - Paper 1 - Question 6

Find the equation of the line passing through the points $(-3, -1)$ and $(-5, 7)$.

Give the equation in its simplest form.

3

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2021 - Paper 2 - Question 9

A straight line has equation $3x + 4y - 8 = 0$.

(a) Find the gradient of the line.

2

(b) State the coordinates of the point where the line crosses the y -axis.

1

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2019 - Paper 2 - Question 13

Find an expression for the gradient of the line joining point $A(6, 9)$ to point $B(4p, 4p^2)$.

Give your answer in its simplest form.

3

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2018 - Paper 2 - Question 14

A straight line has equation $2x - 5y = 20$.

Find the coordinates of the point where this line crosses the y -axis. **2**

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2017 - Paper 2 - Question 11

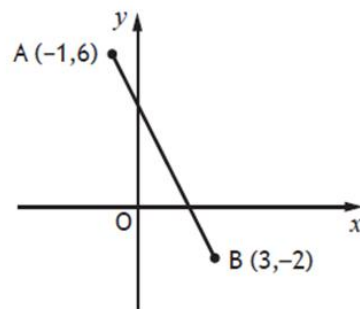
A straight line has equation $3x - 5y - 10 = 0$.

Find the gradient of this line. **2**

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2017 - Paper 1 - Question 6

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.

3

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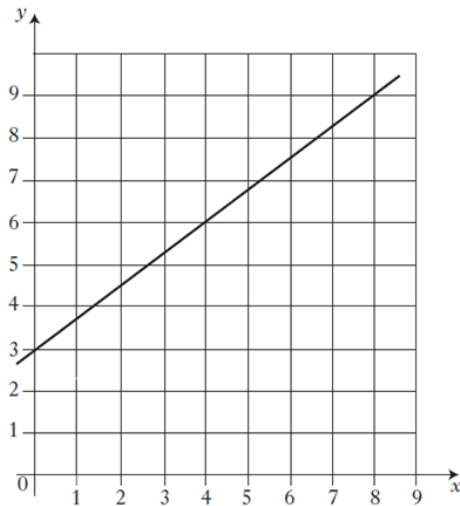
2015 - Paper 1 - Question 8

Find the equation of the line joining the points $(-2, 5)$ and $(3, 15)$.

Give the equation in its simplest form. **3**

Click [here](#) for video solution. 

2014 - Paper 1 - Question 1



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

3

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2014 - Paper 1 - Question 11

- (a) A straight line has equation $4x + 3y = 12$.

Find the gradient of this line.

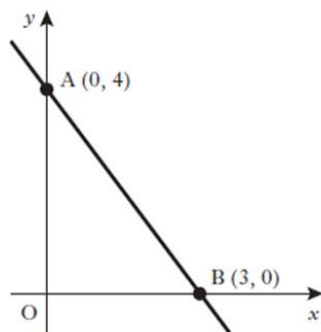
2

- (b) Find the coordinates of the point where this line crosses the x -axis.

2

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2013 - Paper 1 - Question 2



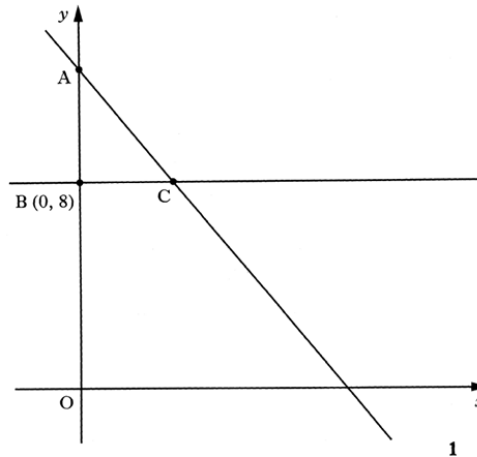
Find the equation of the straight line AB.

3

Click [here](#) for video solution. 

2012 - Paper 1 - Question 3

The straight line with equation $4x + 3y = 36$ cuts the y -axis at A.



(a) Find the coordinates of A.

1

This line meets the line through B (0, 8), parallel to the x -axis, at C as shown above.

(b) Find the coordinates of C.

2

Click [here](#) for video solution. 

2011 - Paper 1 - Question 8

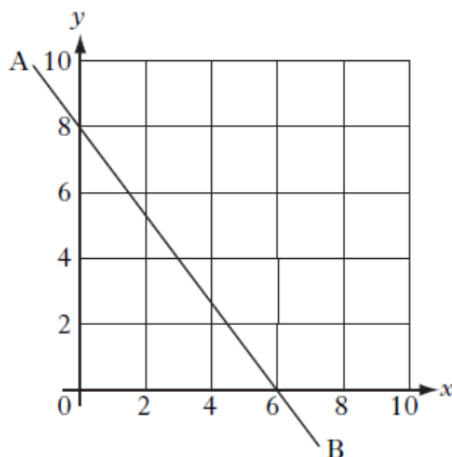
A straight line is represented by the equation $y = mx + c$.

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

2

Click [here](#) for video solution. 

2010 - Paper 1 - Question 1

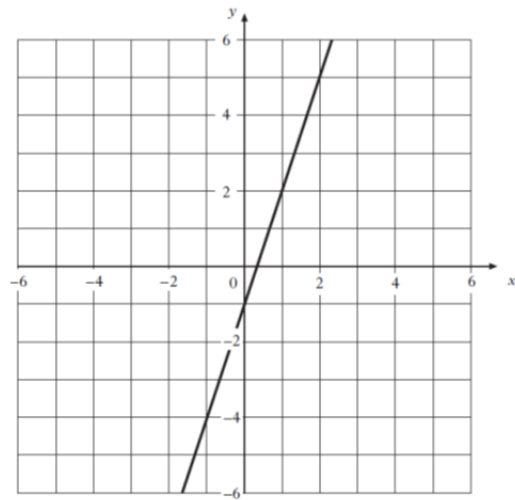


Find the equation of the straight line AB shown in the diagram.

3

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2009 - Paper 1 - Question 2



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

3

Click [here](#) for video solution. 

2009 - Paper 1 - Question 7

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

Find the gradient of this line.

2

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2008 - Paper 1 - Question 1

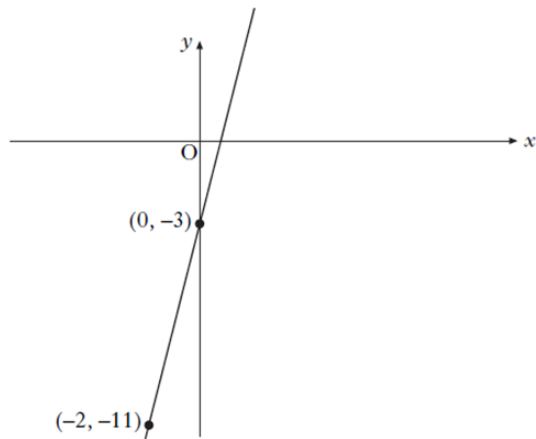
A straight line has equation $y = 4x + 5$.

State the gradient of this line.

1

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2007 - Paper 1 - Question 2



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

3

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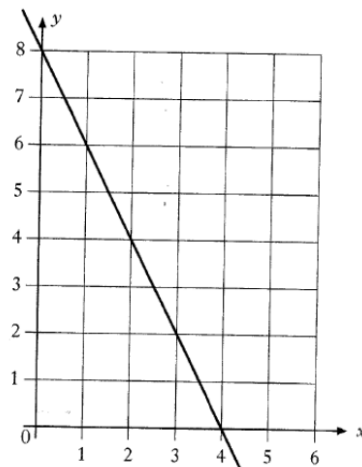
2006 - Paper 1 - Question 5

A straight line is represented by the equation $2y + x = 6$.

- (a) Find the gradient of this line. 2
- (b) This line crosses the y -axis at $(0, c)$.
Find the value of c . 1

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2005 - Paper 1 - Question 2



- (a) Find the equation of the straight line shown in the diagram. 3
- (b) Find the coordinates of the point where the line $y = 2x$ meets this line. 2

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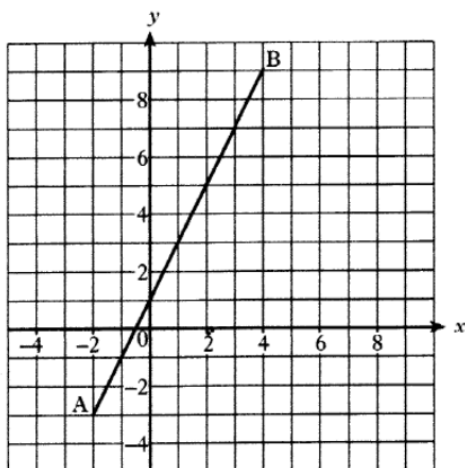
2005 - Paper 2 - Question 3

A straight line has equation $3y = 12 - 4x$.

Find the coordinates of the point where it crosses the x -axis. 2

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2004 - Paper 1 - Question 2

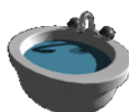


Find the equation of the straight line AB.

3

Click [here](#) for video solution. 

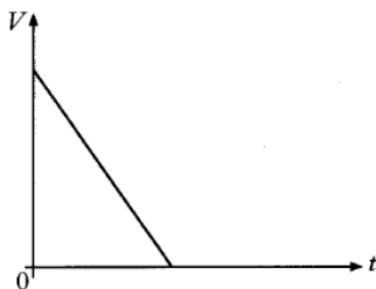
2003 - Paper 2 - Question 4



A bath contains 150 litres of water.

Water is drained from the bath at a steady rate of 30 litres per minute.

The graph of the volume, V litres, of water in the bath against the time, t minutes, is shown below.

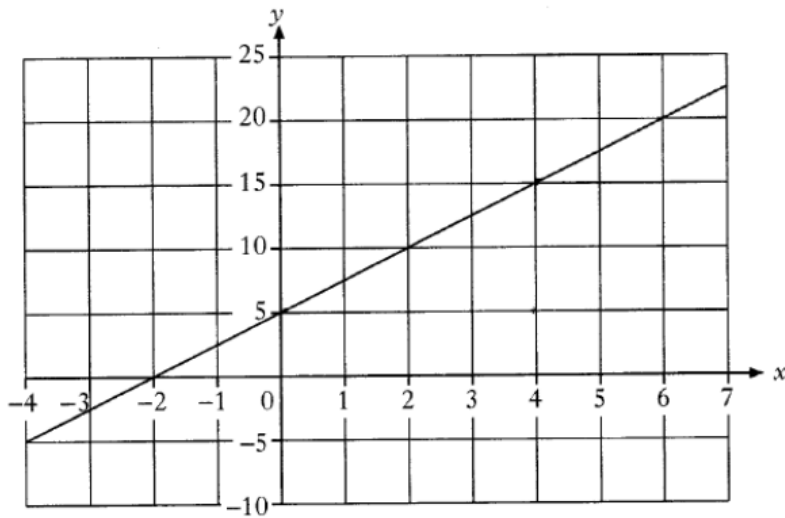


Write down an equation connecting V and t .

3

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2002 - Paper 1 - Question 2

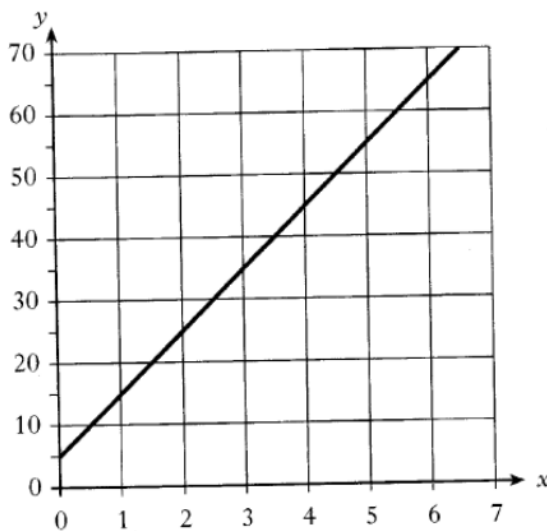


Find the equation of the straight line shown in the diagram.

3

Click [here](#) for video solution. 

2001 - Paper 1 - Question 2

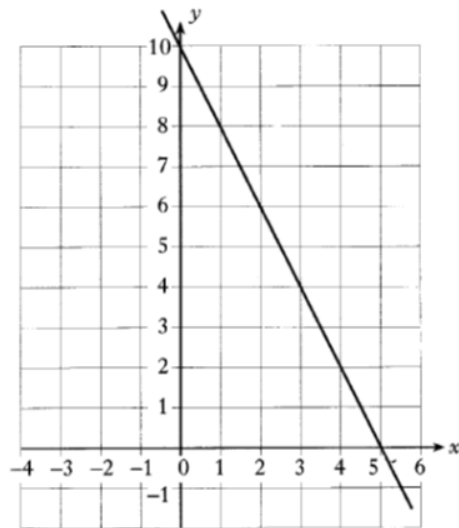


Find the equation of the straight line.

3

Click [here](#) for video solution. 

2000 - Paper 1 - Question 2



Find the equation of the straight line.

3

Click [here](#) for video solution. 