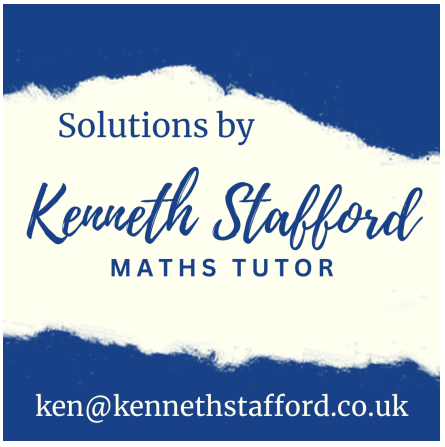
Name: _____

GCSE (1 - 9)

Equation of a Straight Line





These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk
These worksheets were made using examq.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2021, Paper 1F, Q28
2	Edexcel, GCSE, Autumn 2020, Paper 2F, Q29
3	Edexcel, GCSE, Summer 2018, Paper 2F, Q22
4	Edexcel, GCSE, Summer 2018, Paper 3F, Q13
5	Edexcel, GCSE, Autumn 2017, Paper 1F, Q7

1

The equation of a straight line **L** is $y = 3 - 4x$

(i) Write down the gradient of **L**.

−4

.....

(1)

(ii) Write down the coordinates of the point where **L** crosses the y-axis.

(0 , 3)

(1)

(Total for Question 28 is 2 marks)

[Edexcel, GCSE, Autumn 2021, Paper 1F, Q28]

2

Write down the gradient of the line with equation $y = 2x + 3$

2

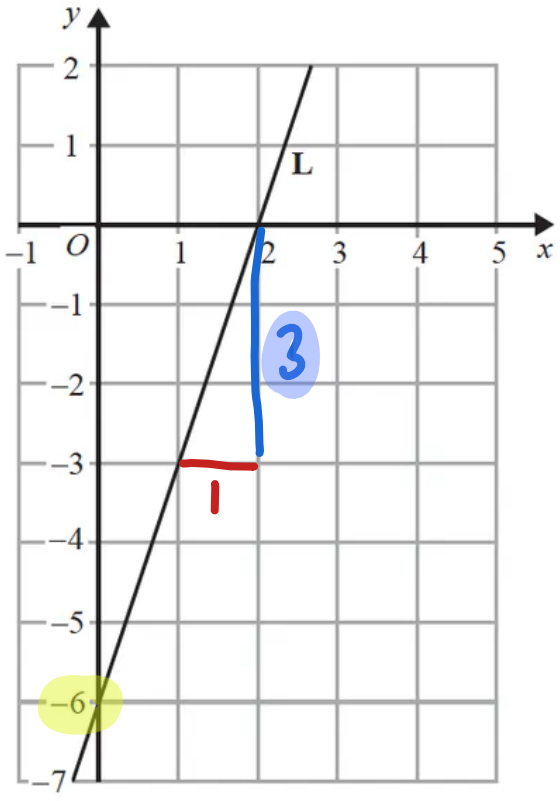
.....

(Total for Question 29 is 1 mark)

[Edexcel, GCSE, Autumn 2020, Paper 2F, Q29]

3

The line **L** is shown on the grid.



Find an equation for **L**.

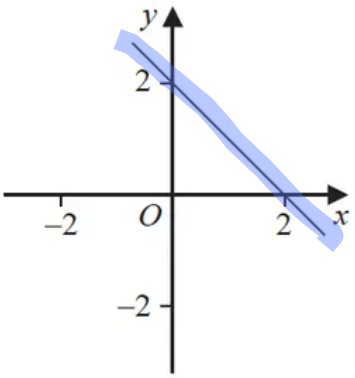
$y = 3x - 6$

(Total for Question 22 is 3 marks)

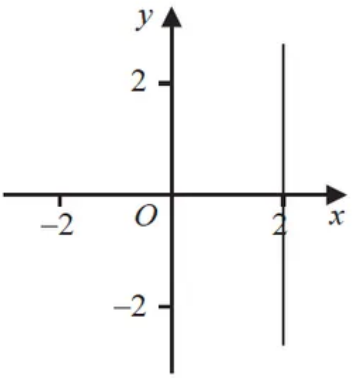
[Edexcel, GCSE, Summer 2018, Paper 2F, Q22]

4

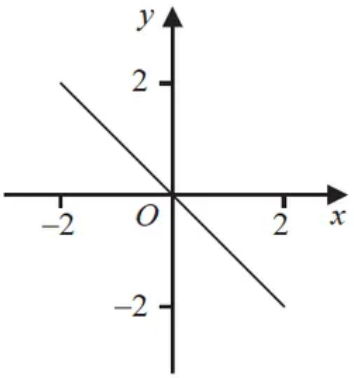
Here are six straight line graphs.



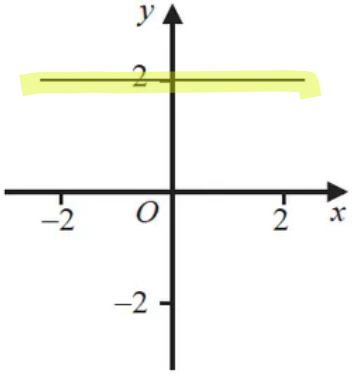
Graph **A**



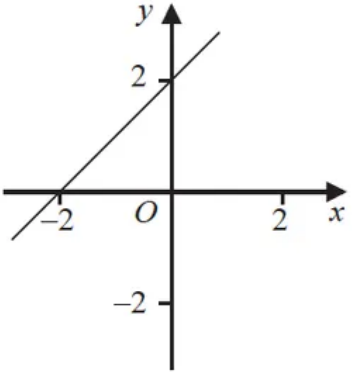
Graph **B**



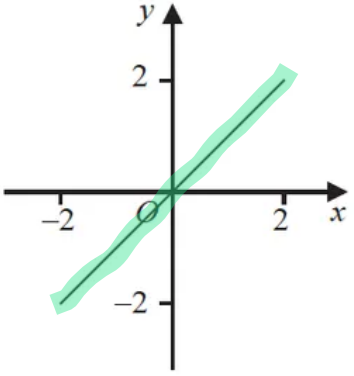
Graph **C**



Graph **D**



Graph **E**



Graph **F**

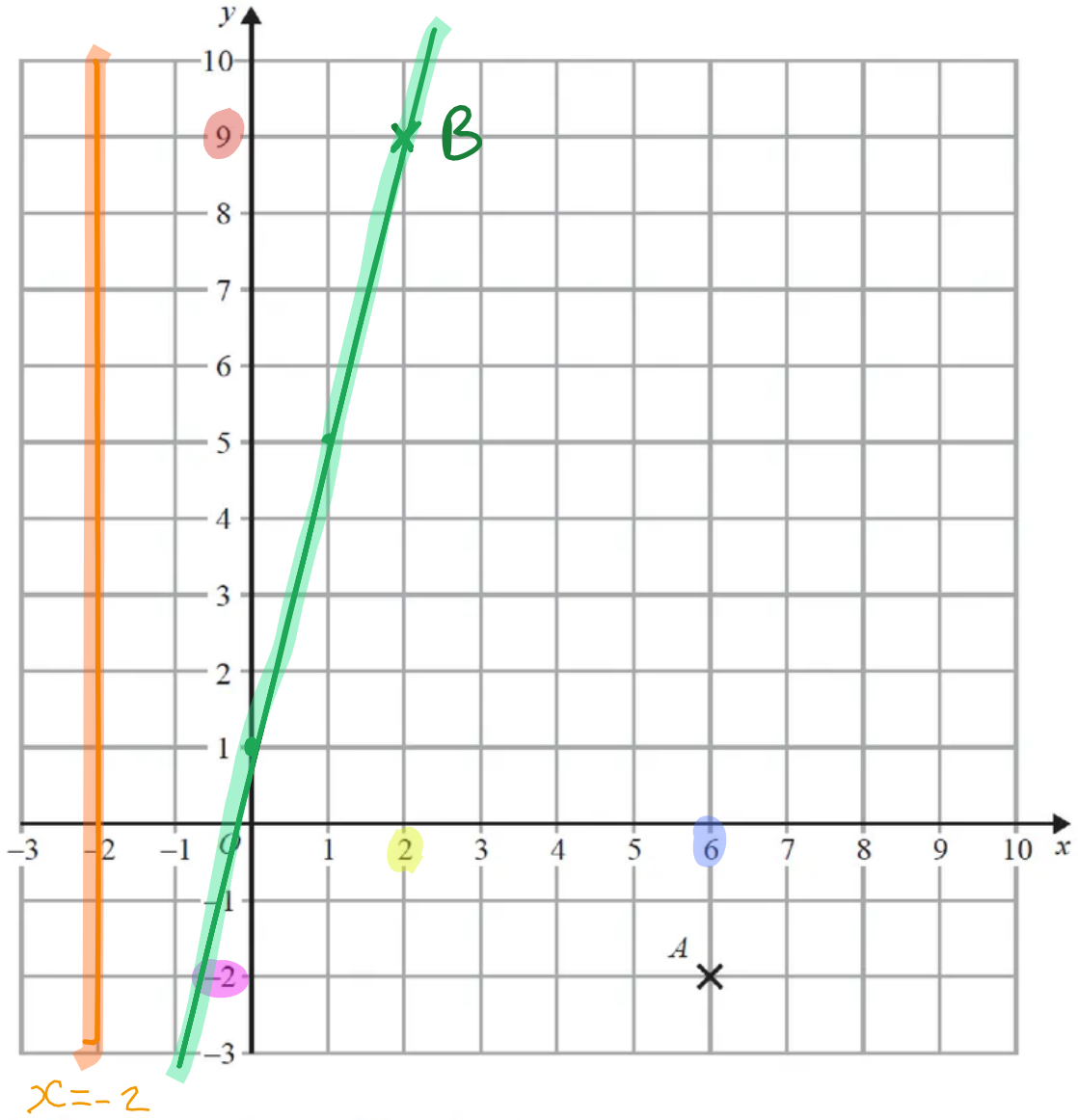
Match each equation in the table to the correct graph.
Write the letter of the graph in the table.

Equation	Graph
$y = 2$	D
$y = x$	F
$x + y = 2$	A

(Total for Question 13 is 2 marks)

[Edexcel, GCSE, Summer 2018, Paper 3F, Q13]

5



(a) Write down the coordinates of the point A.

(6 , −2)

(1)

(b) (i) Plot the point with coordinates (2, 9).
Label this point B.

(1)

(ii) Does point B lie on the straight line with equation $y = 4x + 1$?
You must show how you get your answer.

Yes.

(1)

(c) On the grid, draw the line with equation $x = -2$

(1)

(Total for Question 7 is 4 marks)

[Edexcel, GCSE, Autumn 2017, Paper 1F, Q7]