Name: SOLUTIONS

GCSE (1 - 9)

Straight Line Graphs

Buy me a coffee

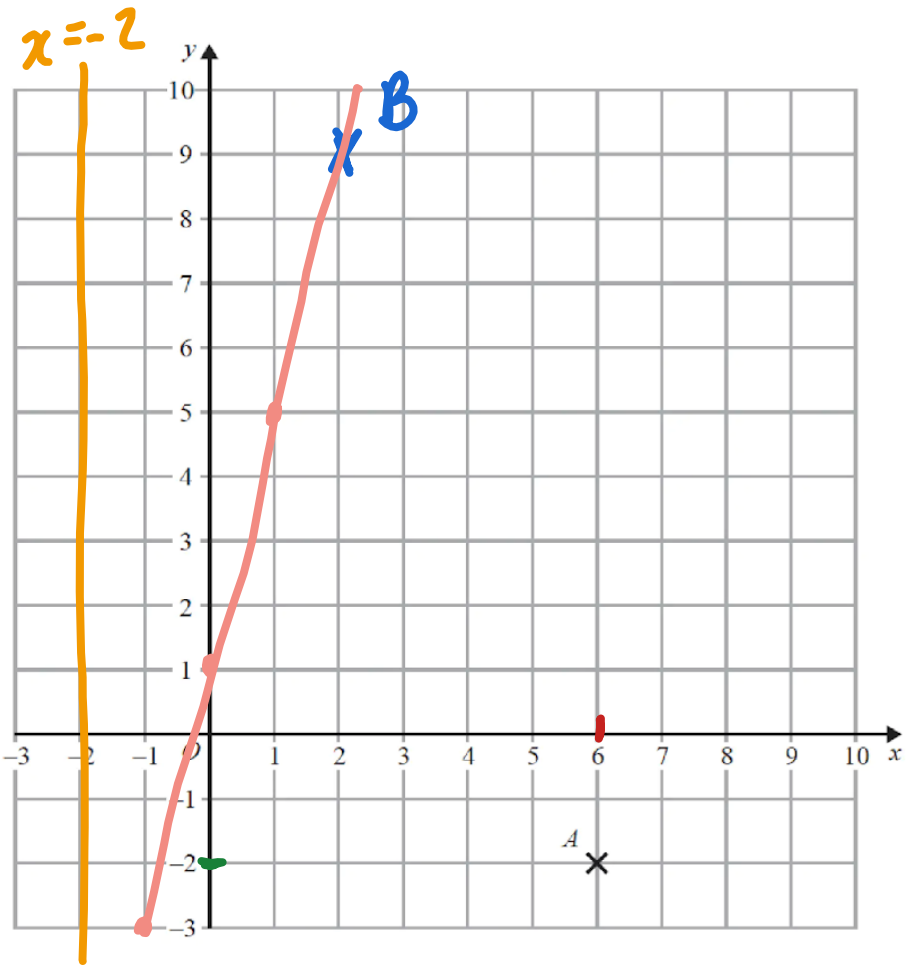
Solutions by
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These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam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

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2017, Paper 1F, Q7
2	Edexcel, GCSE, Autumn 2017, Paper 3F, Q13
3	Edexcel, GCSE, Summer 2018, Paper 1F, Q25
4	Edexcel, GCSE, Summer 2018, Paper 3F, Q13
5	Edexcel, GCSE, Autumn 2018, Paper 1F, Q08
6	Edexcel, GCSE, Summer 2019, Paper 2F, Q21
7	Edexcel, GCSE, Summer 2022, Paper 2F, Q17

Straight Line Graphs Questions from Past Papers

1



(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. $9 = 4(2) + 1$

(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]

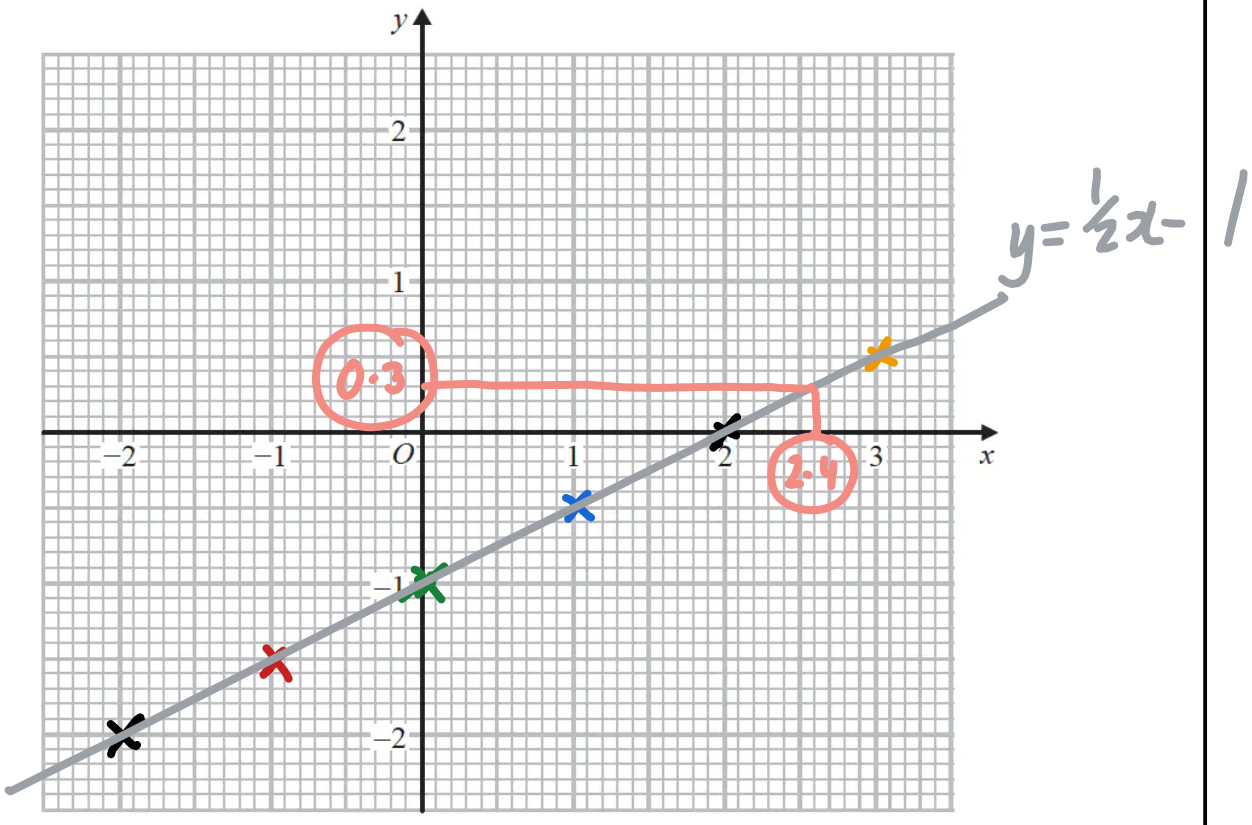
2

(a) Complete the table of values for $y = \frac{1}{2}x - 1$

x	−2	−1	0	1	2	3
y	−2	-1.5	-1	-0.5	0	0.5

(2)

(b) On the grid, draw the graph of $y = \frac{1}{2}x - 1$ for values of x from −2 to 3



(2)

(c) Use your graph to find the value of x when $y = 0.3$

$x =$ 2.4

(1)

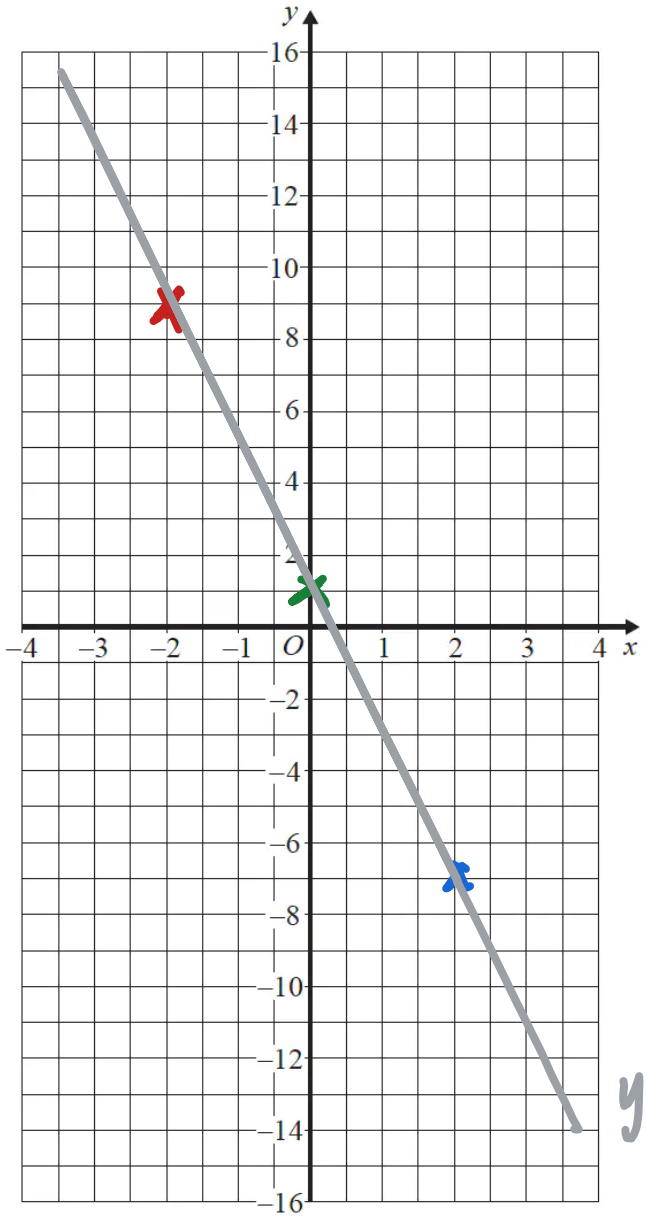
(Total for Question 13 is 5 marks)

[Edexcel, GCSE, Autumn 2017, Paper 3F, Q13]

3

On the grid below, draw the graph of $y = 1 - 4x$ for values of x from -3 to 3

x	-2	0	2
y	9	1	-7



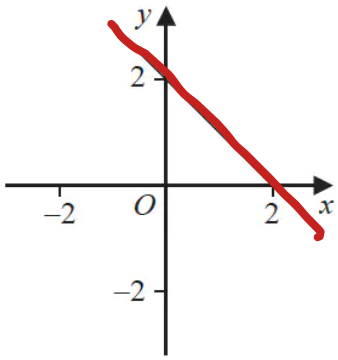
$y = 1 - 4x$

(Total for Question 25 is 3 marks)

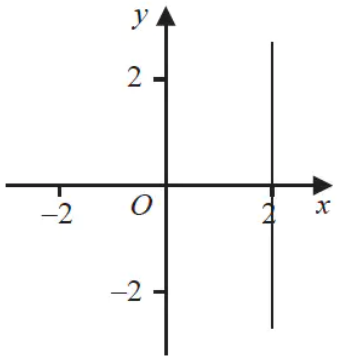
[Edexcel, GCSE, Summer 2018, Paper 1F, Q25]

4

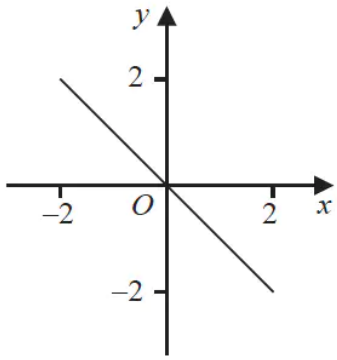
Here are six straight line graphs.



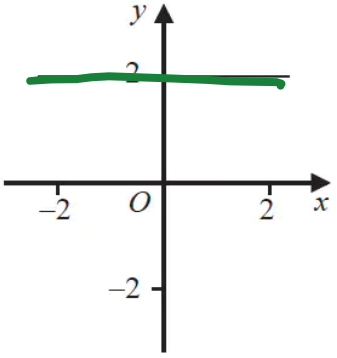
Graph **A**



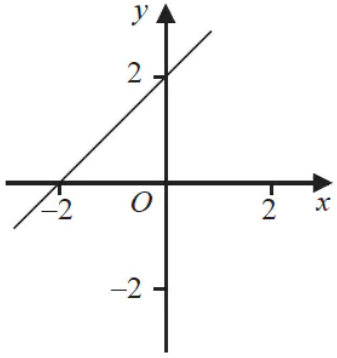
Graph **B**



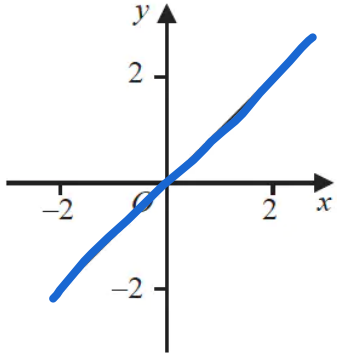
Graph **C**



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

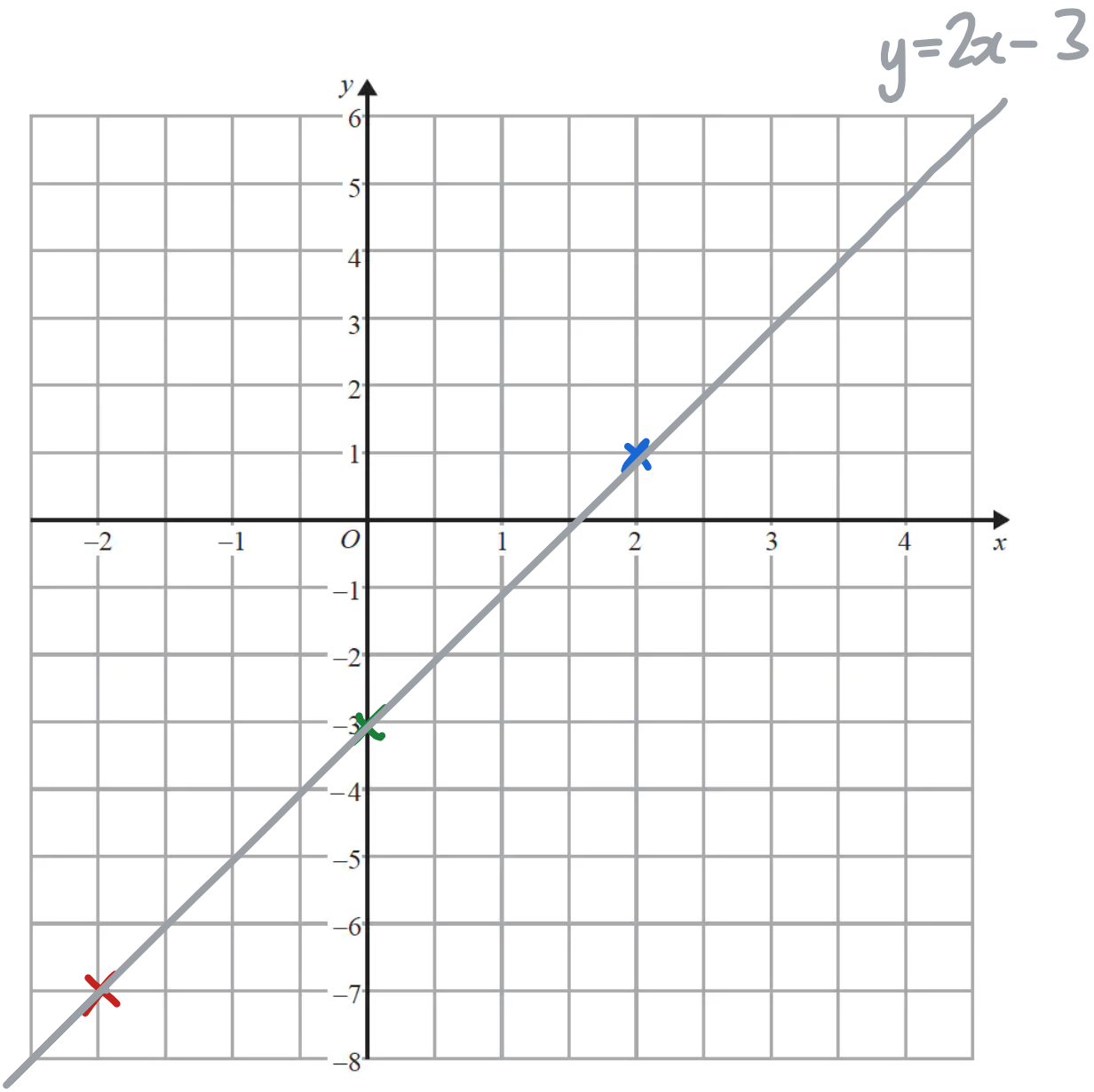
(Total for Question 13 is 2 marks)

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

5

On the grid below, draw the graph of $y = 2x - 3$ for values of x from -2 to 4

x	-2	0	2
y	-7	-3	1



(Total for Question 21 is 3 marks)

[Edexcel, GCSE, Autumn 2018, Paper 1F, Q08]

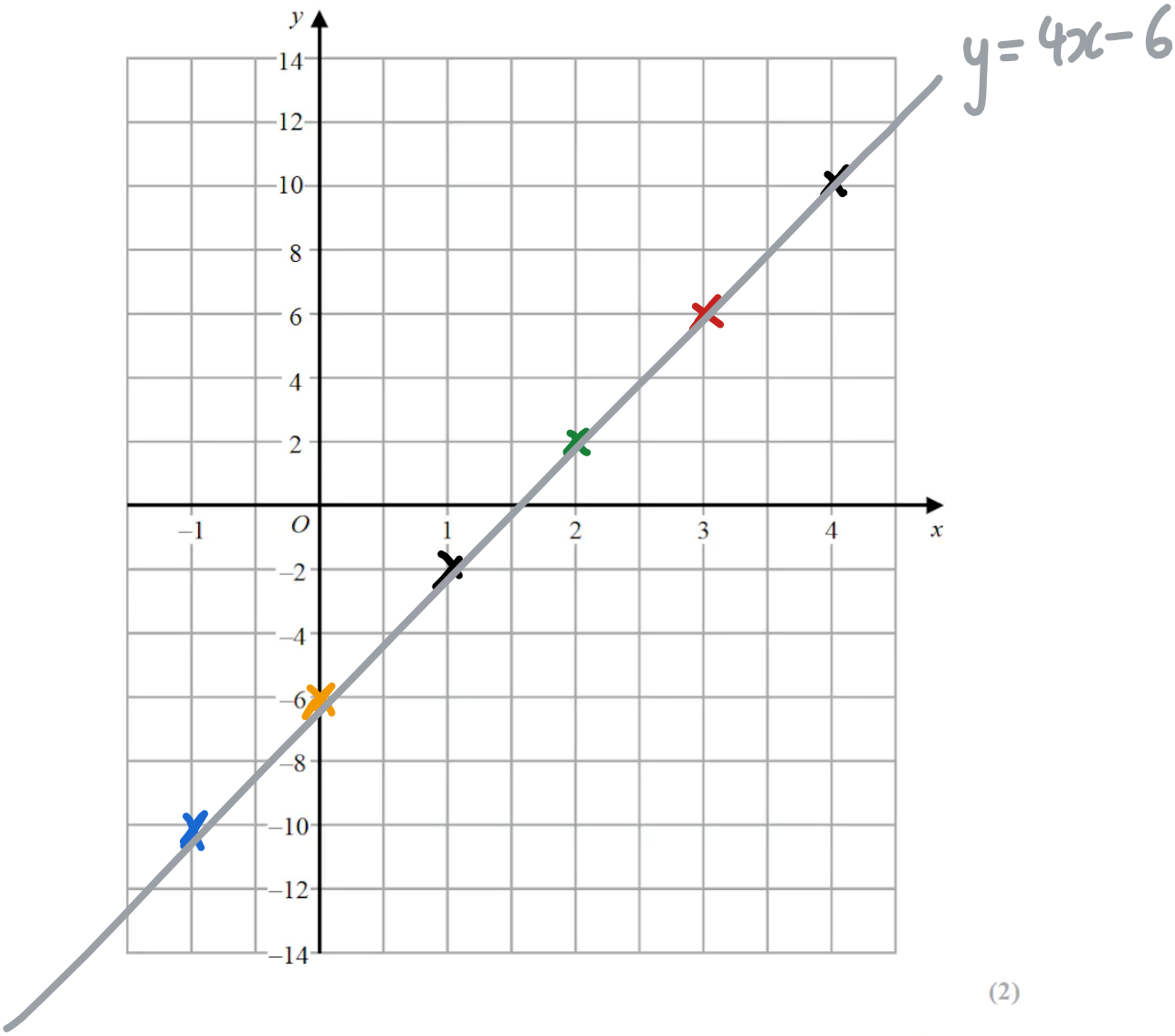
6

(a) Complete the table of values for $y = 4x - 6$

x	−1	0	1	2	3	4
y	-10	-6	−2	2	6	10

(2)

(b) On the grid, draw the graph of $y = 4x - 6$ for values of x from −1 to 4



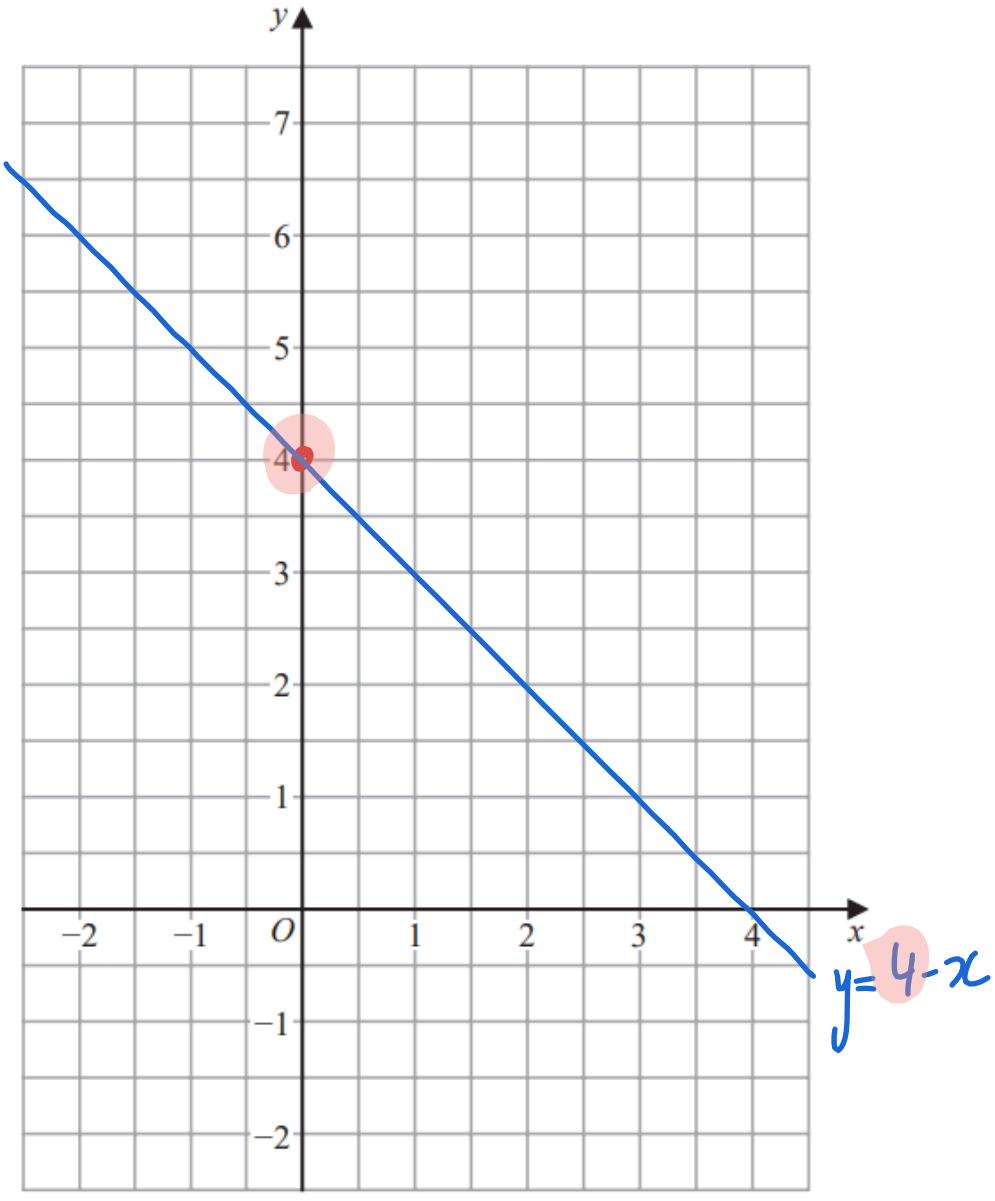
(2)

(Total for Question 17 is 4 marks)

[Edexcel, GCSE, Summer 2019, Paper 2F, Q21]

7

On the grid below, draw the graph of $y = 4 - x$ for values of x from -2 to 4



(Total for Question 17 is 3 marks)

[Edexcel, GCSE, Summer 2022, Paper 2F, Q17]