

# Straight Line Graphs

A collection of 9-1 Maths GCSE Sample and Specimen questions from AQA, OCR, Pearson-Edexcel and WJEC Eduqas.

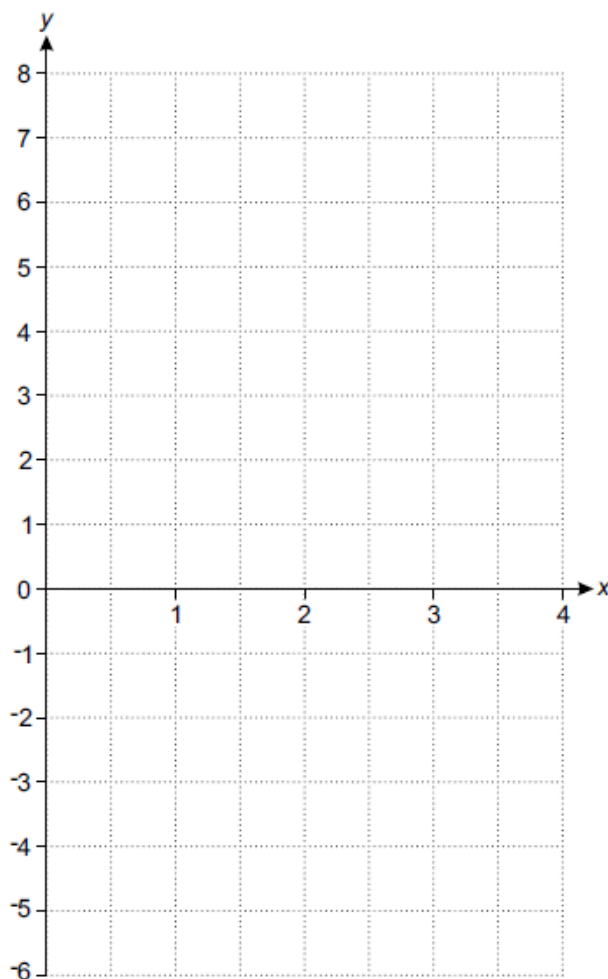
Name:	
Total Marks:	

1. (a) Complete this table for  $y = 2x - 3$ .

$x$	0	1	2	3	4
$y$	-3		1		5

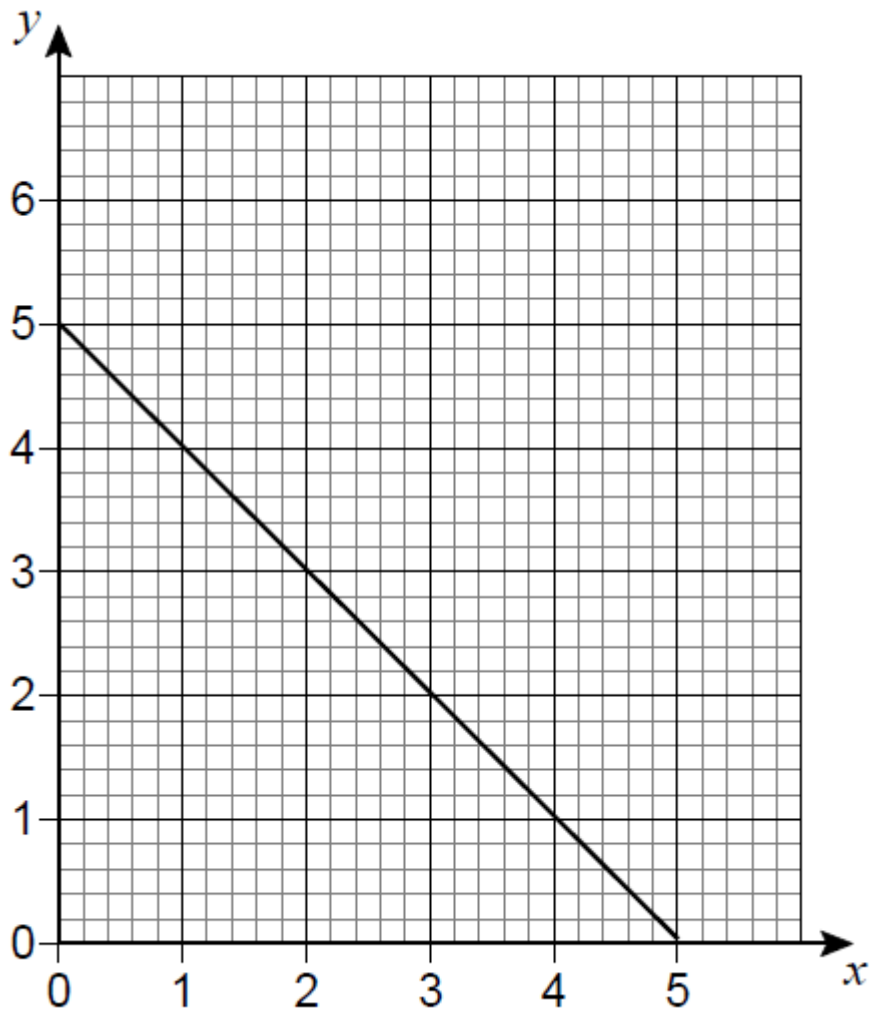
[1]

(b) On the grid below, draw the graph of  $y = 2x - 3$  for values of  $x$  from 0 to 4.



[2]

2. Here is the graph of  $y = 5 - x$  for values of  $x$  from 0 to 5



(a) On the same grid, draw the graph of  $y = x + 1$  for values of  $x$  from 0 to 5

[2]

(b) Use the graphs to solve the simultaneous equations

$$y = 5 - x \text{ and } y = x + 1$$

$$x = \underline{\hspace{2cm}}$$

$$y = \underline{\hspace{2cm}}$$

[1]

3. Circle the equation of a line that is parallel to  $y = 5x - 2$

[1]

$$y = 2x - 5$$

$$y = 5x + 2$$

$$y = 3x - 2$$

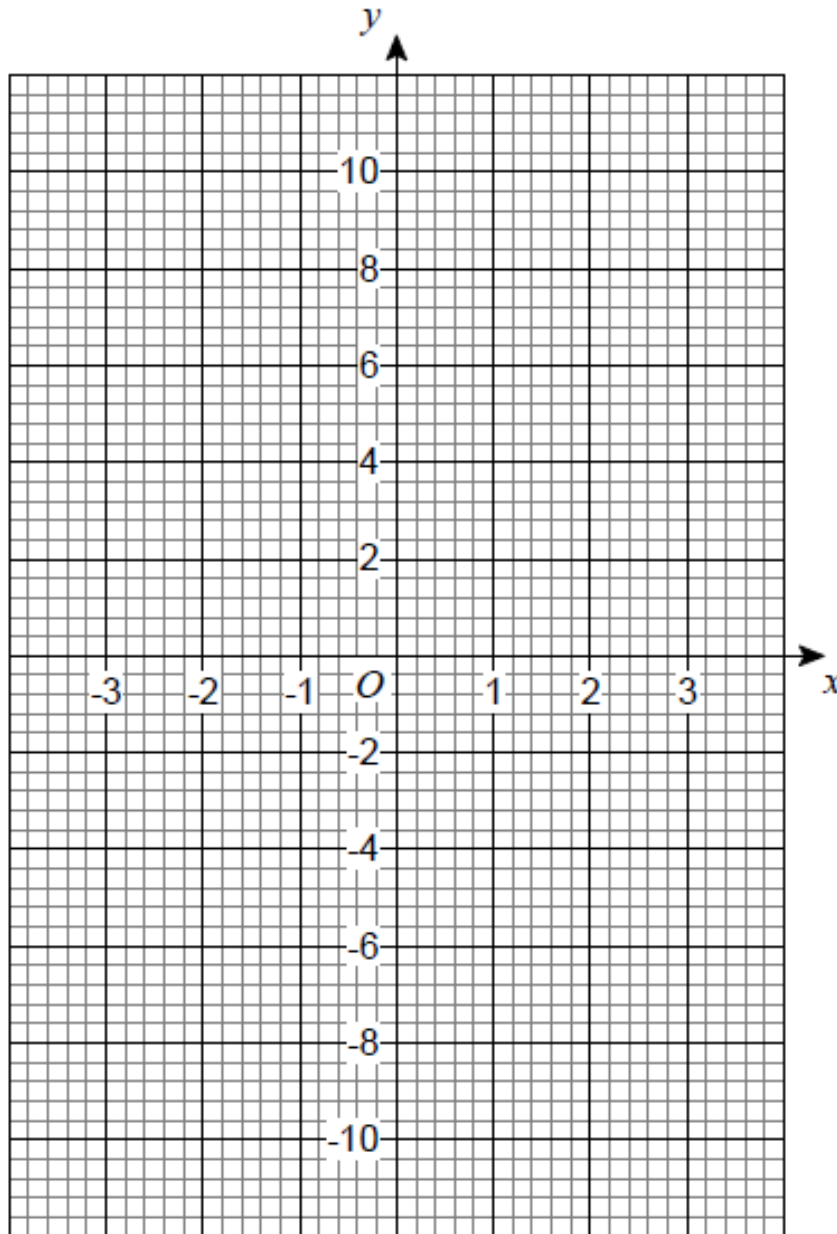
$$y = -\frac{1}{5}x - 2$$

4. (a) Complete the table for  $y = 3x + 1$

$x$	-3	-2	-1	0	1	2	3
$y$	-8		-2		4		

[2]

(b) On the grid draw the graph of  $y = 3x + 1$  for values of  $x$  from -3 to 3



[2]

(c) Solve  $x = 3x + 1$

[2]

## CREDITS AND NOTES

Question	Awarding Body
1	OCR
2	AQA
3	AQA
4	AQA

### Notes:

These questions have been retyped from the original sample/specimen assessment materials and whilst every effort has been made to ensure there are no errors, any that do appear are mine and not the exam board s (similarly any errors I have corrected from the originals are also my corrections and not theirs!).

Please also note that the layout in terms of fonts, answer lines and space given to each question does not reflect the actual papers to save space.

These questions have been collated by me as the basis for a GCSE working party set up by the GLOW maths hub - if you want to get involved please get in touch. The objective is to provide support to fellow teachers and to give you a flavour of how different topics "could" be examined. They should not be used to form a decision as to which board to use. There is no guarantee that a topic will or won't appear in the "live" papers from a specific exam board or that examination of a topic will be as shown in these questions.



### Links:

AQA <http://www.aqa.org.uk/subjects/mathematics/gcse/mathematics-8300>

OCR <http://ocr.org.uk/gcsemaths>

Pearson Edexcel <http://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html>

WJEC Eduqas <http://www.eduqas.co.uk/qualifications/mathematics/gcse/>

### Contents:

This version contains questions from:

AQA – Sample Assessment Material and Practice set 1

OCR – Sample Assessment Material and Practice set 1

Pearson Edexcel – Sample Assessment Material, Specimen set 1 and Specimen set 2.

WJEC Eduqas – Sample Assessment Material