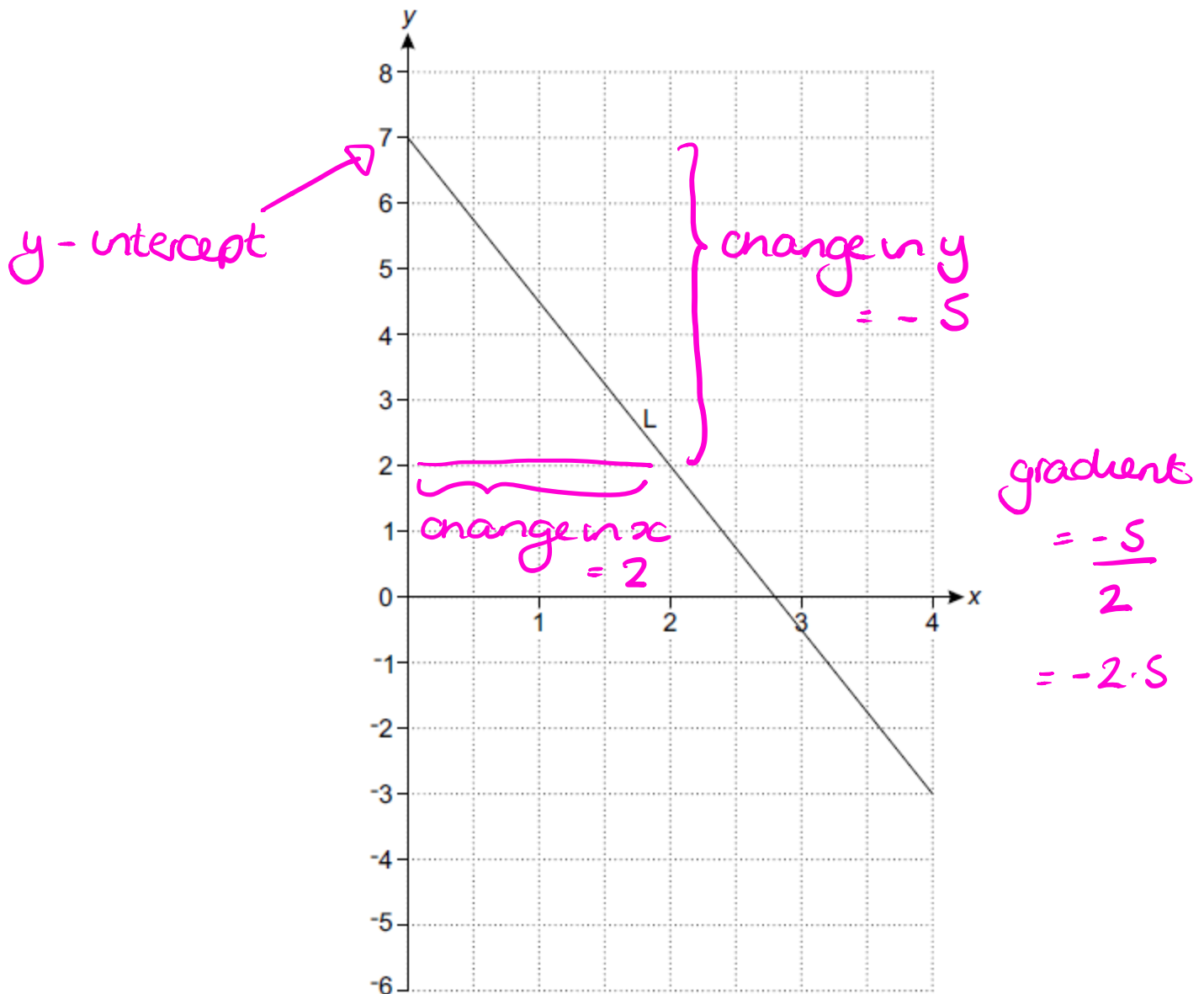


Equation of a straight line (F)

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

Name:	Mel@JustMaths.
Total Marks:	

1. Line L is drawn on the grid below.

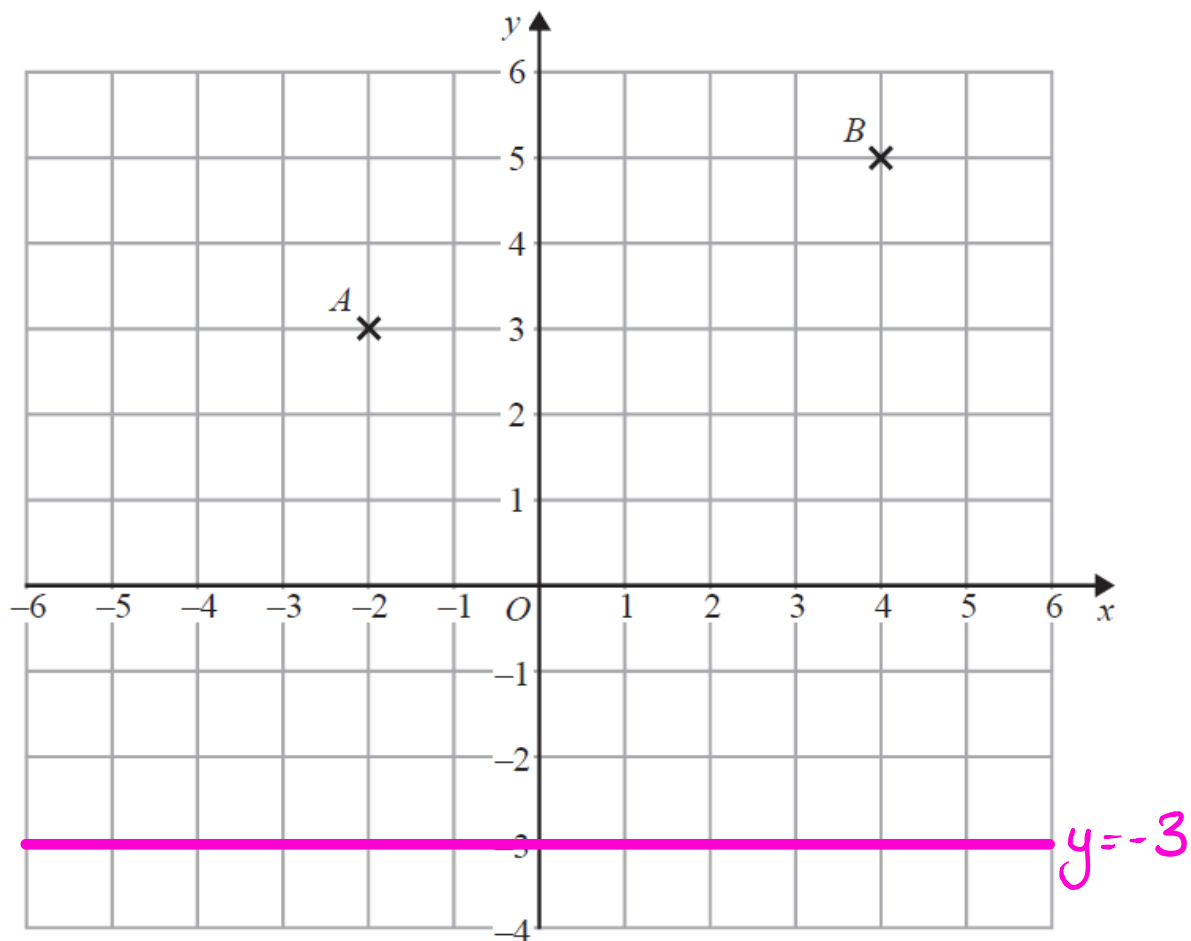


Work out the equation of line L.

$$y = -2.5x + 7$$

[3]

2.



On the grid, draw the line with equation $y = -3$ ✓

3. Here are the equations of four straight lines. [1]

Line A $y = 2x + 4$

Line B $2y = x + 4$

Line C $2x + 2y = 4$

Line D $2x - y = 4$

Two of these lines are parallel.

Write down the two parallel lines.

gradient = 2

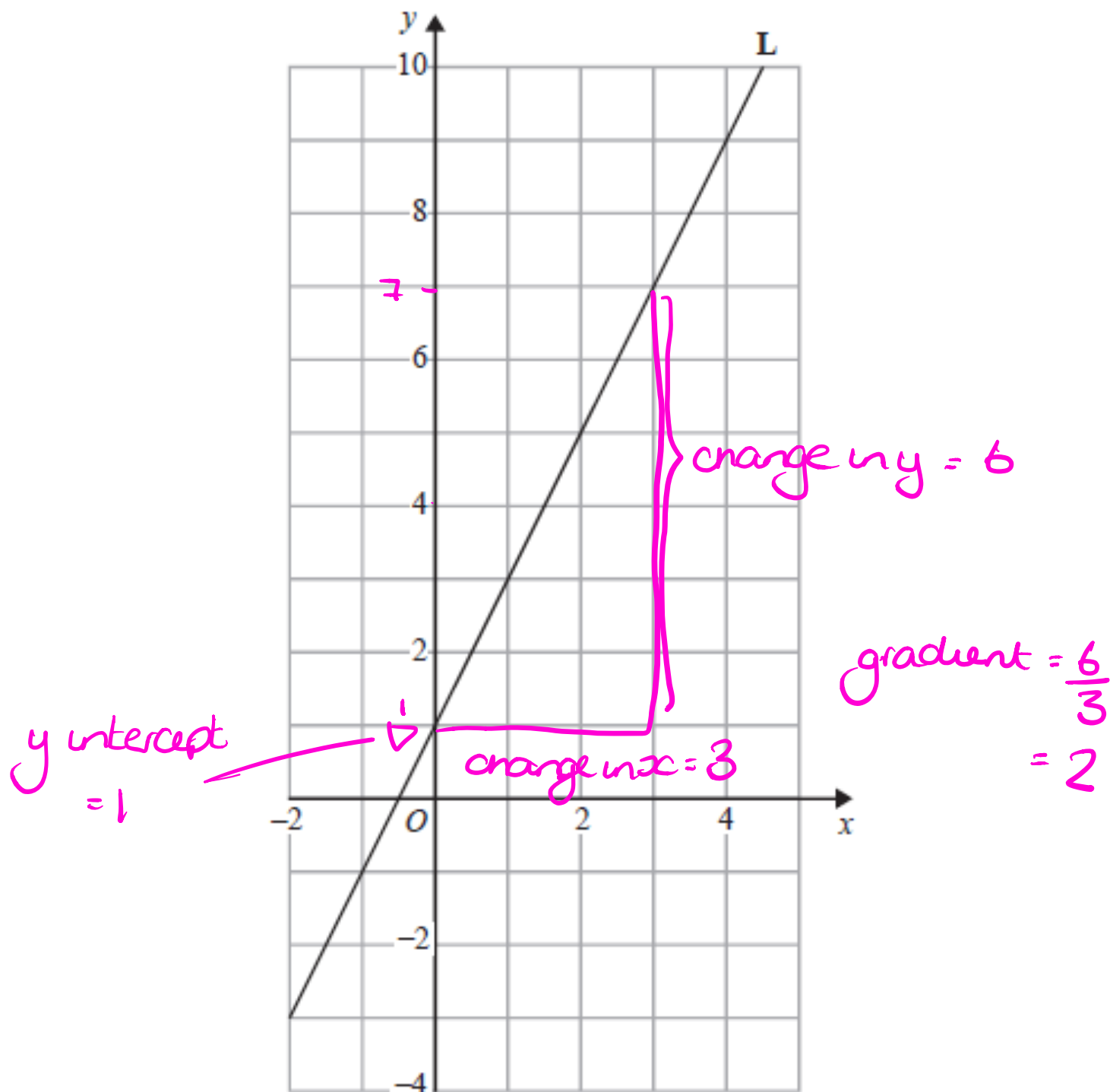
$y = \frac{x}{2} + 2$ gradient = $\frac{1}{2}$

$2y = 4 - 2x$
 $y = -x + 2$ gradient = -1

$2x - 4 = y$ $y = 2x - 4$ gradient = 2

SAME GRADIENT. Line A and line D [1]

4. Line **L** is drawn on the grid below.



Find an equation for the straight line **L**.

Give your answer in the form $y = mx + c$

$$y = 2x + 1$$

[3]

gradient

y-intercept

5. A line has the equation $y = 4x - 5$

a) What is the gradient of the line? Circle your answer.

[1]

-5

-4

4

5

b) What is the y-intercept of the line? Circle your answer.

[1]

-5

-4

4

5

CREDITS AND NOTES

Question	Awarding Body
1	OCR
2	Pearson Edexcel
3	Pearson Edexcel
4	Pearson Edexcel
5	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: CREDITS AND NOTES

This version contains questions from:

AQA – Sample Assessment Material, Practice set 1 and Practice set 2

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