Equation of a Line

Question Paper

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Equation of a Line
Grade Level	Grade 5
Booklet	Question Paper

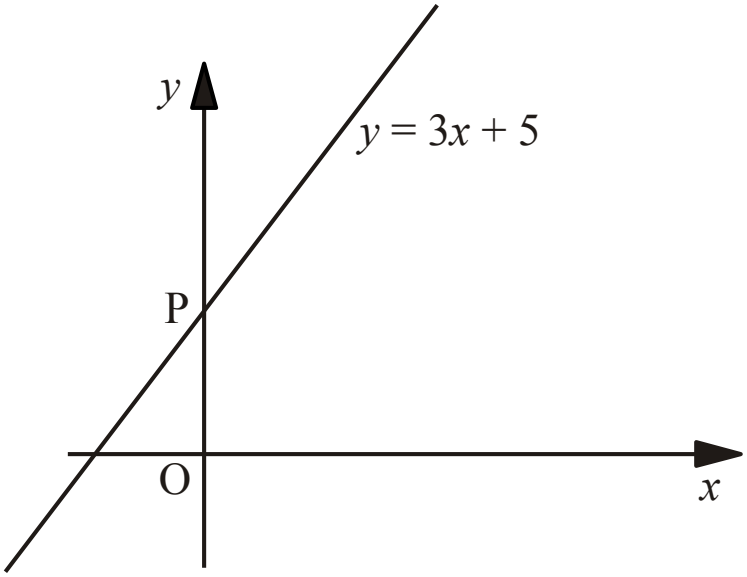
Time Allowed: **33 minutes**

Score: **/27**

Percentage: **/100**

Grade Boundaries:

1.



(a) The line $y = 3x + 5$ crosses the y axis at P.
What is the value of y at P?

..... (1)

(b) Write down the equation of another line which is parallel to $y = 3x + 5$

..... (1)

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2. A line passes through the point (0, 4).
The gradient of this line is 2.
Write down the equation of this line.

..... (2)

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

(a) Write down the gradient of the line.

..... (1)

(b) Write down the coordinates of the point where the line crosses the y axis.

..... (1)

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4. A straight line has equation $y = 3x - 2$

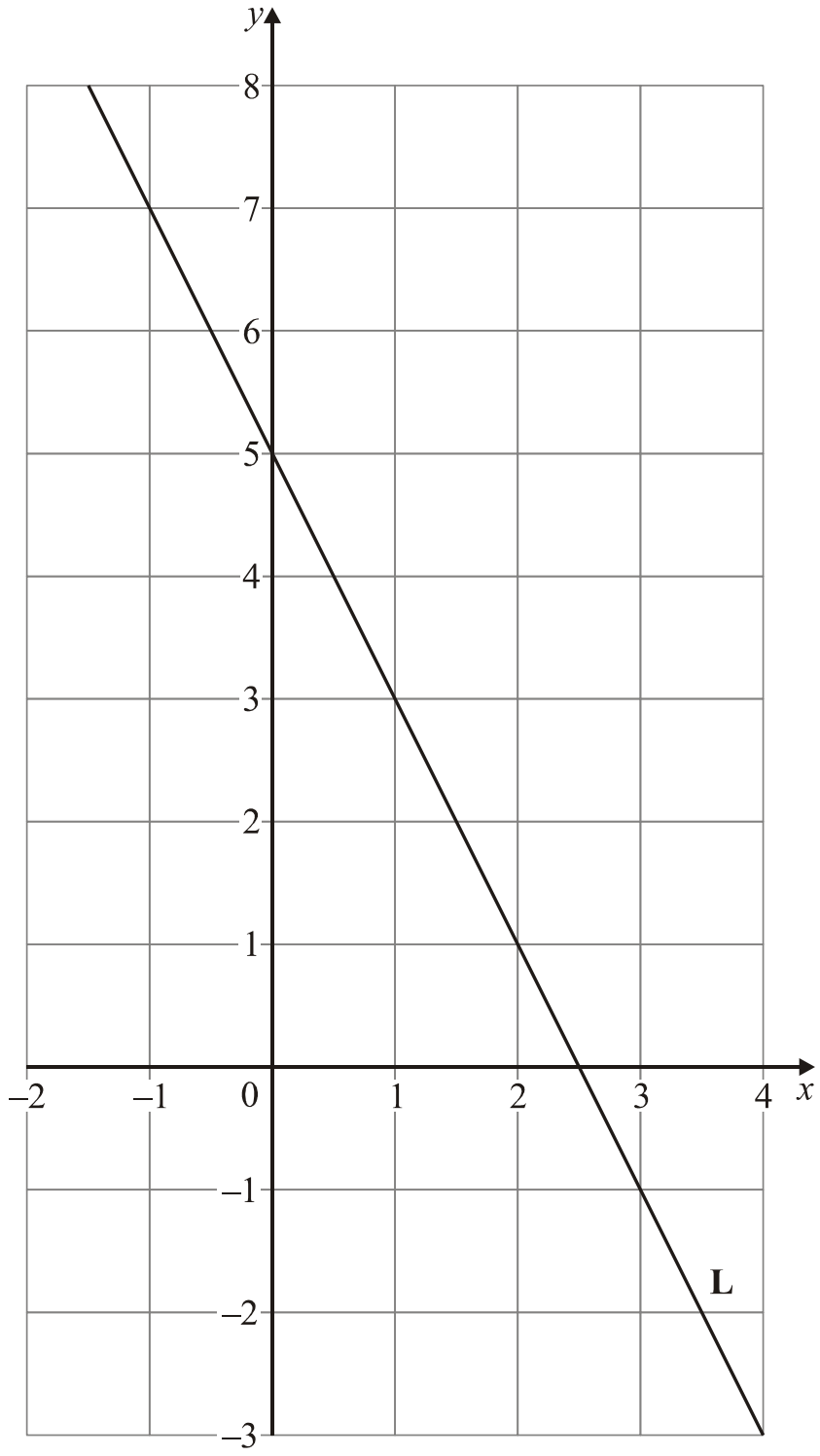
(a) Write down the gradient of the line.

..... (1)

(b) Write down the coordinates of the point where the line crosses the y axis.

..... (1)

5.



Find the equation of line L

..... (3)

6a) A straight line has equation $2y - 10x = 8$
Work out the gradient of this line.

..... (2)

b) Write down the equation of a line parallel to this line.

..... (1)

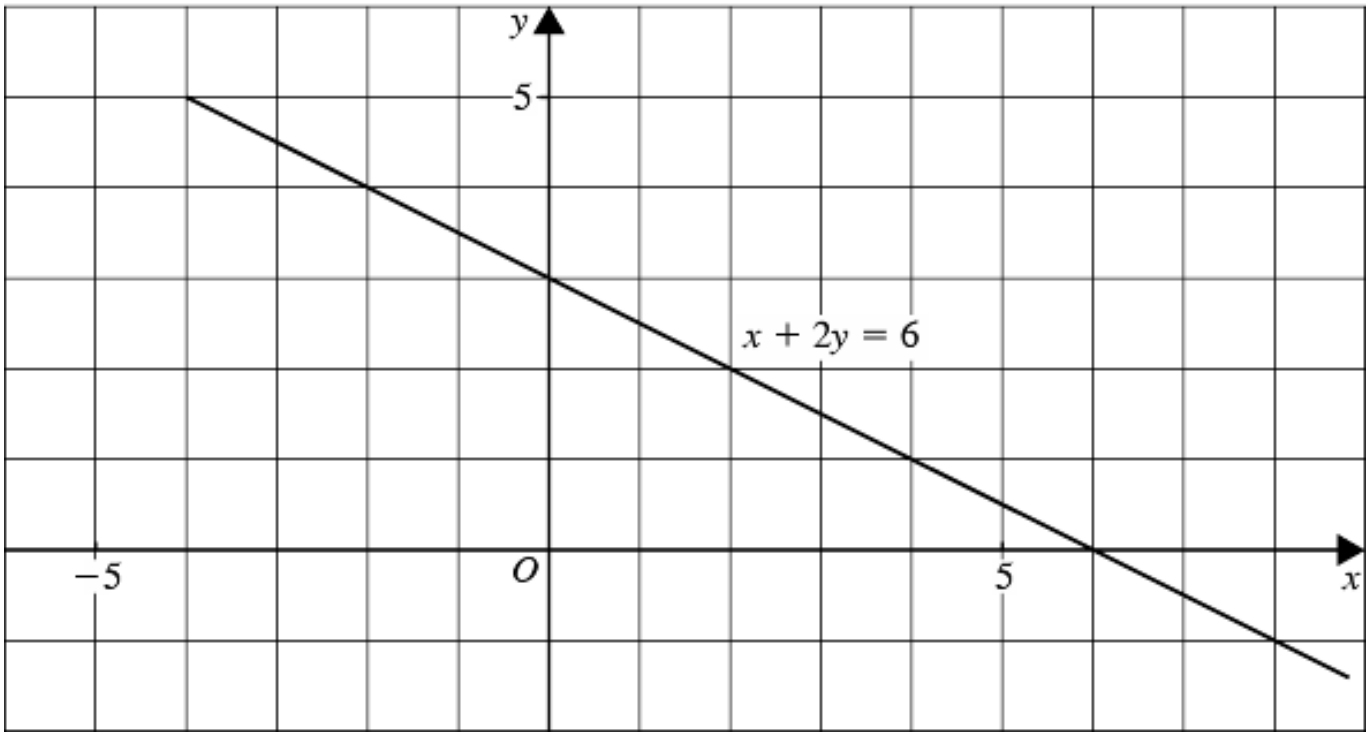
7a) A straight line has equation $4y - 5x = 2$
Work out the gradient of this line.

..... (2)

b) Write down the equation of a line parallel to this line.

..... (1)

8. The line with equation $x+2y=6$ has been drawn on the grid.



(a) Rearrange the equation $x+2y=6$ to make y the subject.

..... (2)

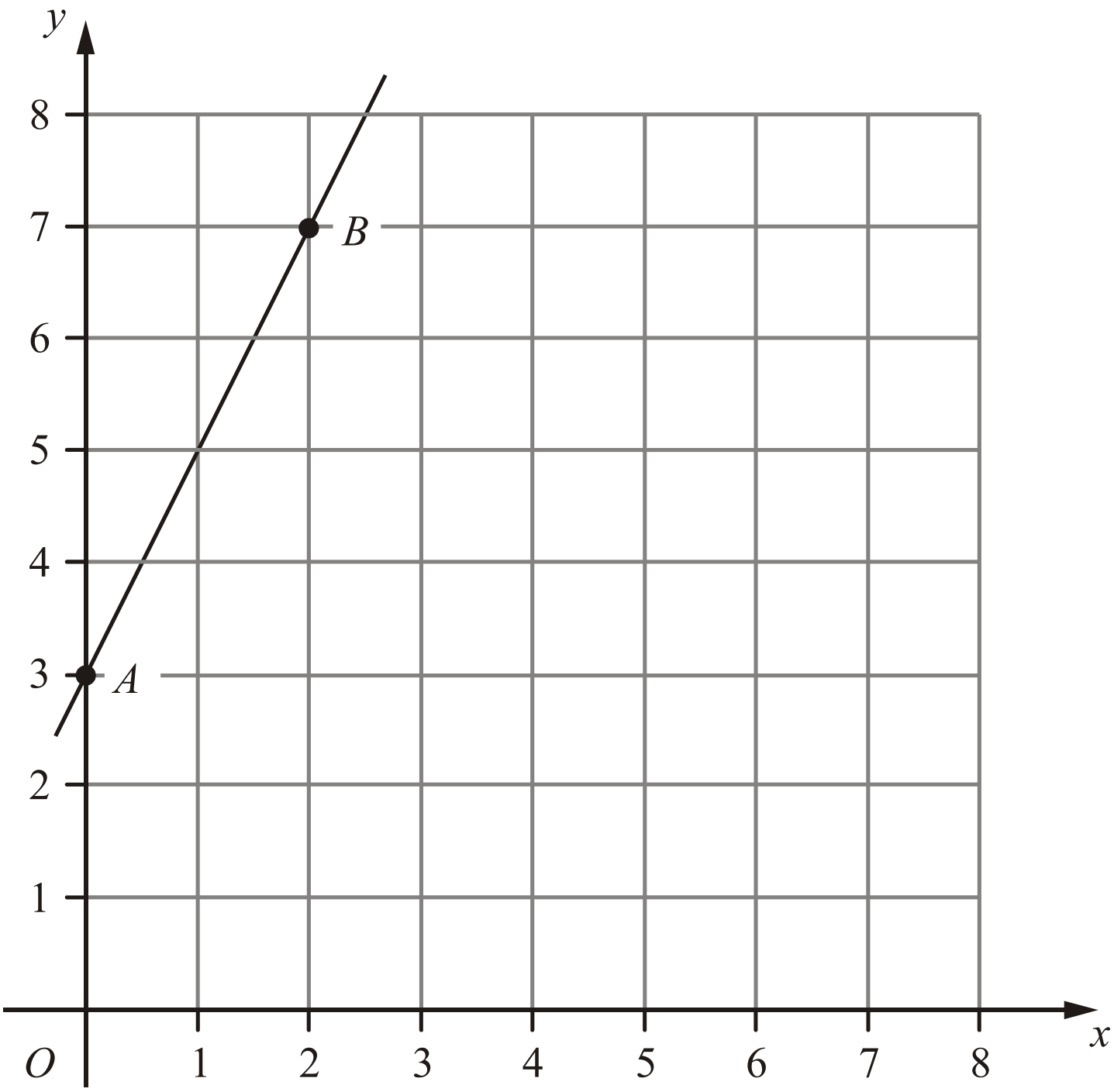
(b) Write down the gradient of the line with equation $x+2y=6$

..... (2)

(c) Write down the equation of the line which is parallel to the line with equation $x+2y=6$ and passes through the point with coordinates (0, 7).

..... (1)

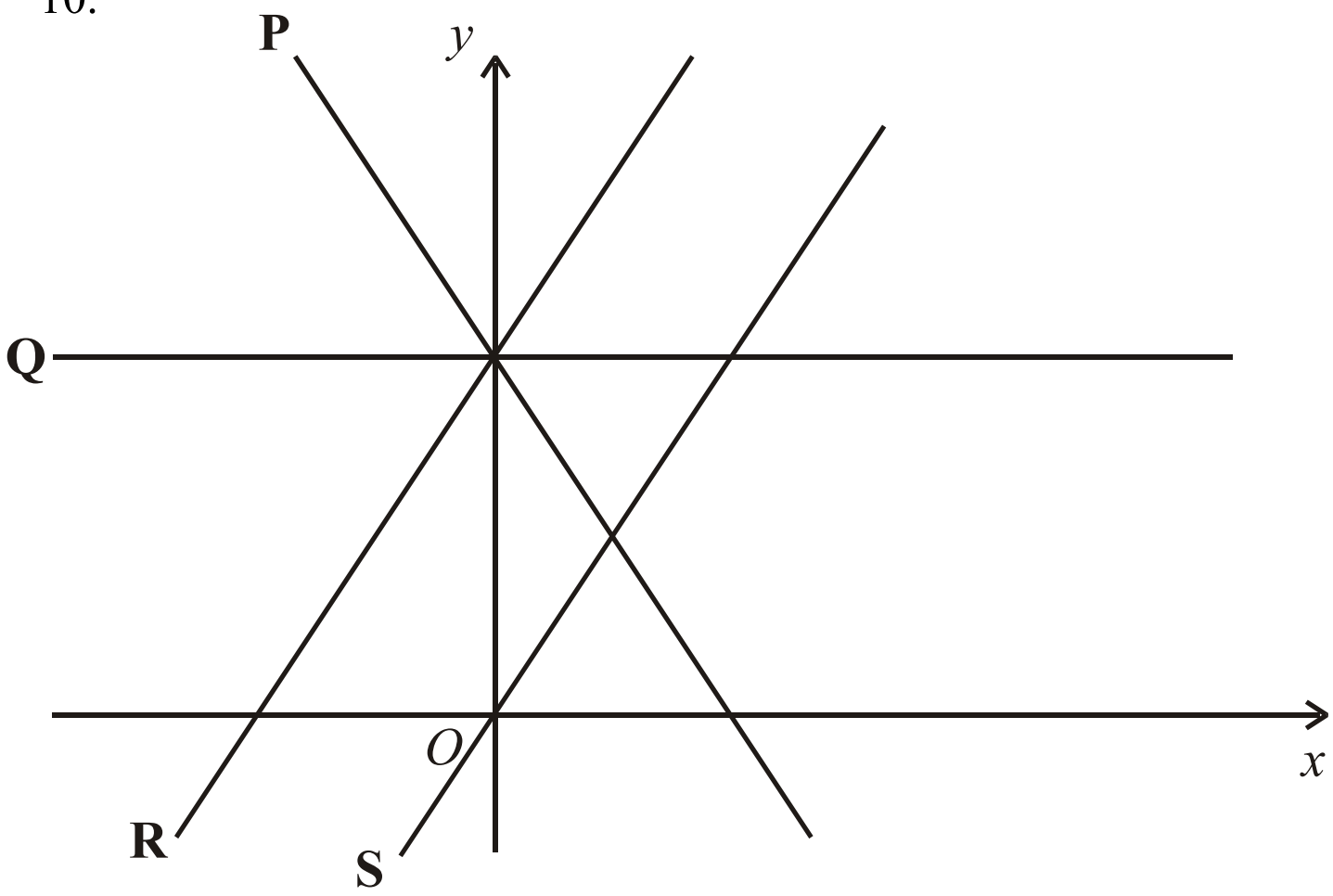
9.



Find the equation of line that passes through A and B

..... (3)

10.



7. The diagram shows 4 straight lines, labelled P, Q, R and S.
The equations of the straight lines are:

$A: y = 2x$
$B: y = 3 - 2x$
$C: y = 2x + 3$
$D: y = 3$

Match each straight line, P, Q, R and S to its equation.
Complete the table.

Equation	A	B	C	D
Straight line				

(2)