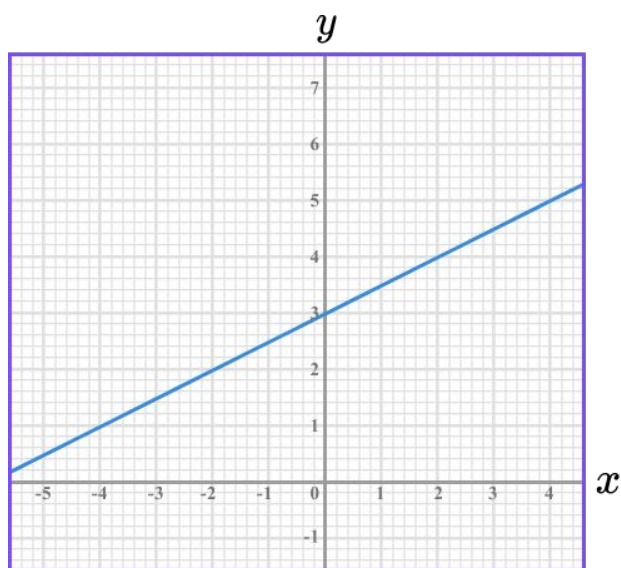# GCSE Exam Questions

Equation of a Line | Algebra

GCSE Exam Questions: Equation of a Line

1)   Find the equation of the line shown on the graph below.
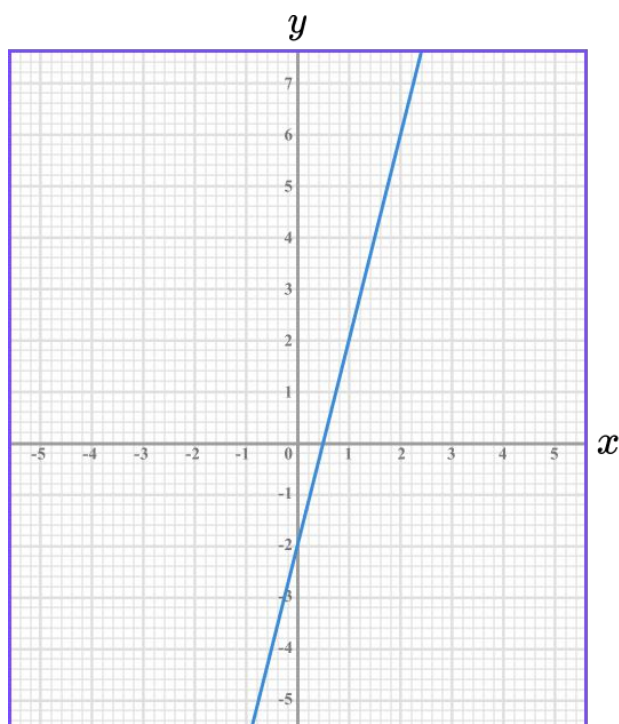

Give your answer in the form *y = mx + c*.

- -

(3 marks)

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1

GCSE Exam Questions: Equation of a Line

2) **(a)** Find the equation of the line shown on the graph below.

(3)

(b) Give the *y* coordinate of the point on the line with an *x* coordinate of 2.

(1)

(4 marks)

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2

GCSE Exam Questions: Equation of a Line

3)
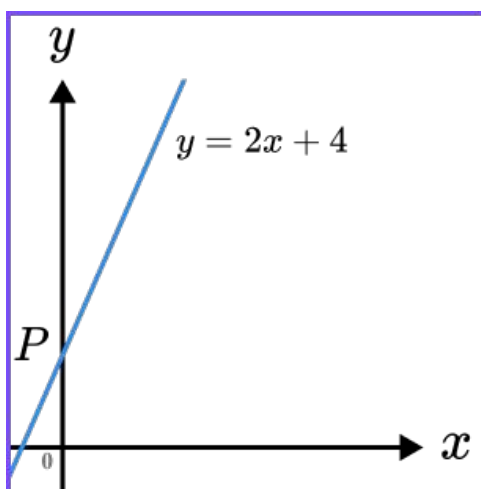
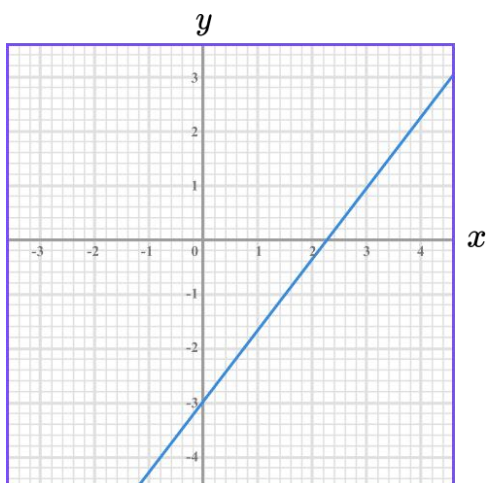

The line $y = 2x + 4$ crosses the y axis at P.
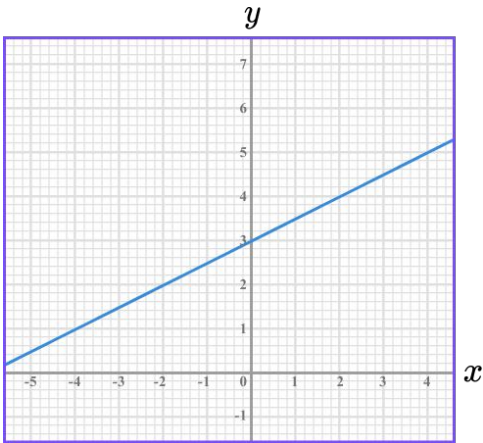
What is the value of y at P?

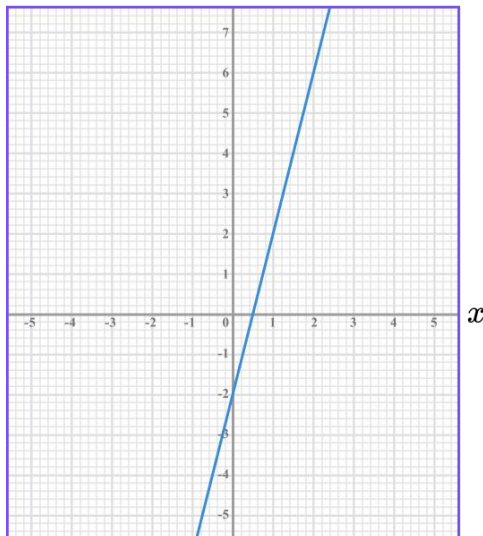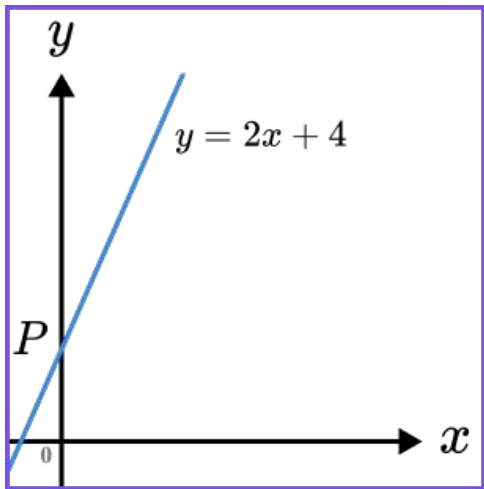**(1 mark)**

4)
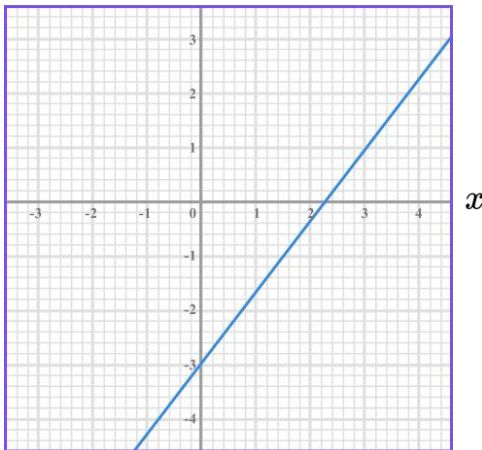
Write the equation of the line in the form $ay + bx + c = 0$.

(4 marks)

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3

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GCSE Exam Questions: Equation of a Line Answers

	Question	Answer	Marks
1)	Find the equation of the line shown on the graph below. Give your answer in the form $y = mx + c$	Gradient identified as $\frac{1}{2}$ y - intercept identified as 3 $y = \frac{1}{2}x + 3$	**(1)** **(1)** **(1)**
2) (a)	A straight line is shown below. Find the equation of the line.	**(a)** Gradient identified as 4 y - intercept identified as -2 $y = 4x - 2$	**(1)** **(1)** **(1)**
(b)	Give the y coordinate of the point on the line with an x coordinate of 2.	**(b)** 6	**(1)**

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GCSE Exam Questions: Equation of a Line Answers

	Question	Answer	Marks
3)	The line $y = 2x + 4$ crosses the y axis at P. What is the value of y at P?	$y = 4$ Accept embedded value of y: $P(0,4)$	**(1)**
4)	Write the equation of the line in the form $ay + bx + c = 0$.	Gradient identified as $\dfrac{4}{3}$ y - intercept identified as -3 $y = \dfrac{4}{3}x - 3$ $3y - 4x + 9 = 0$	**(1)** **(1)** **(1)** **(1)**

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