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Solving Simultaneous Equations Graphically

Question Paper

Level	GCSE
Subject	Maths
Exam Board	Edexcel GCSE
Topic	Solving Simultaneous Equations Graphically
Grade Level	Grade 5
Booklet	Question Paper

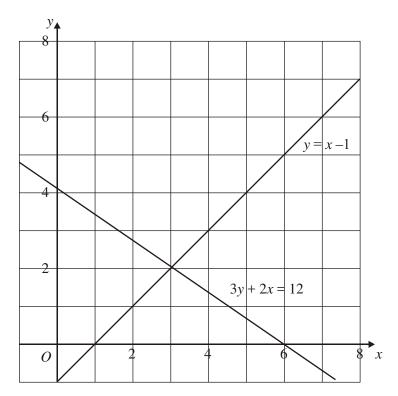
Time Allowed: 16 minutes

Score: /13

Percentage: /100

Grade Boundaries:

1. The graphs of the straight lines with equations 3y + 2x = 12 and y = x - 1 have been drawn on the grid.



Use the graphs to solve the simultaneous equations

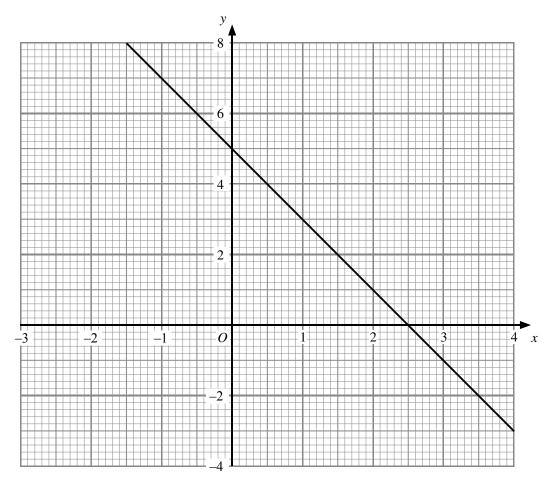
$$3y + 2x = 12$$
$$y = x - 1$$

$$x = \dots$$

$$y = \dots$$
(2)

(Total 2 marks)

2. The straight line y + 2x = 5 has been drawn on the grid.



(a) Complete this table of values for y = 2x - 1

X	-1	0	1	2	3	4
у		-1		3	5	

(2)

(b) On the grid, draw the graph of y = 2x - 1

(2)

(c) Use your diagram to solve the simultaneous equations

$$y + 2x = 5$$

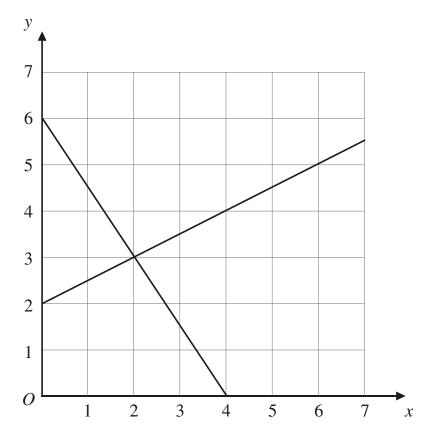
$$y = 2x - 1$$

 $x = \dots$

(2)

(Total 6 marks)

3.



The diagram shows graphs of $y = \frac{1}{2}x + 2$ and 2y + 3x = 12

(a) Use the diagram to solve the simultaneous equations

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

$$2y + 3x = 12$$

$$x = y =$$
 (2) (Total 2 marks)

4.

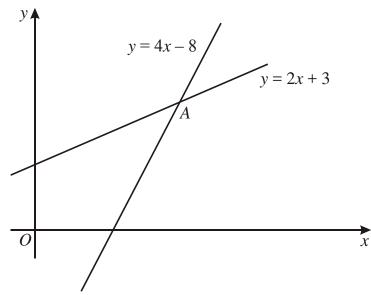


Diagram NOT accurately drawn

The diagram shows two straight lines intersecting at point A. The equations of the lines are

$$y = 4x - 8$$
$$y = 2x + 3$$

Work out the coordinates of A.

(.....)
(Total 3 marks)