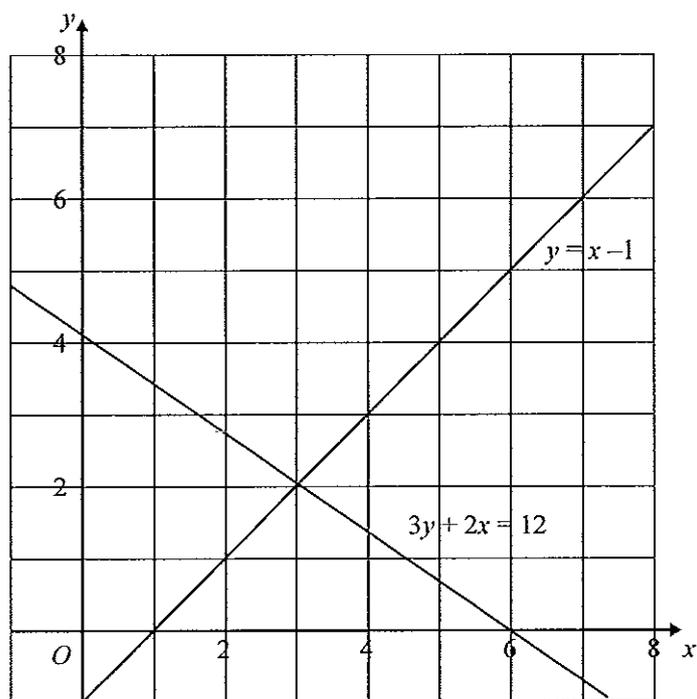


1. The graphs of the straight lines with equations $3y + 2x = 12$ and $y = x - 1$ have been drawn on the grid.



Use the graphs to solve the simultaneous equations

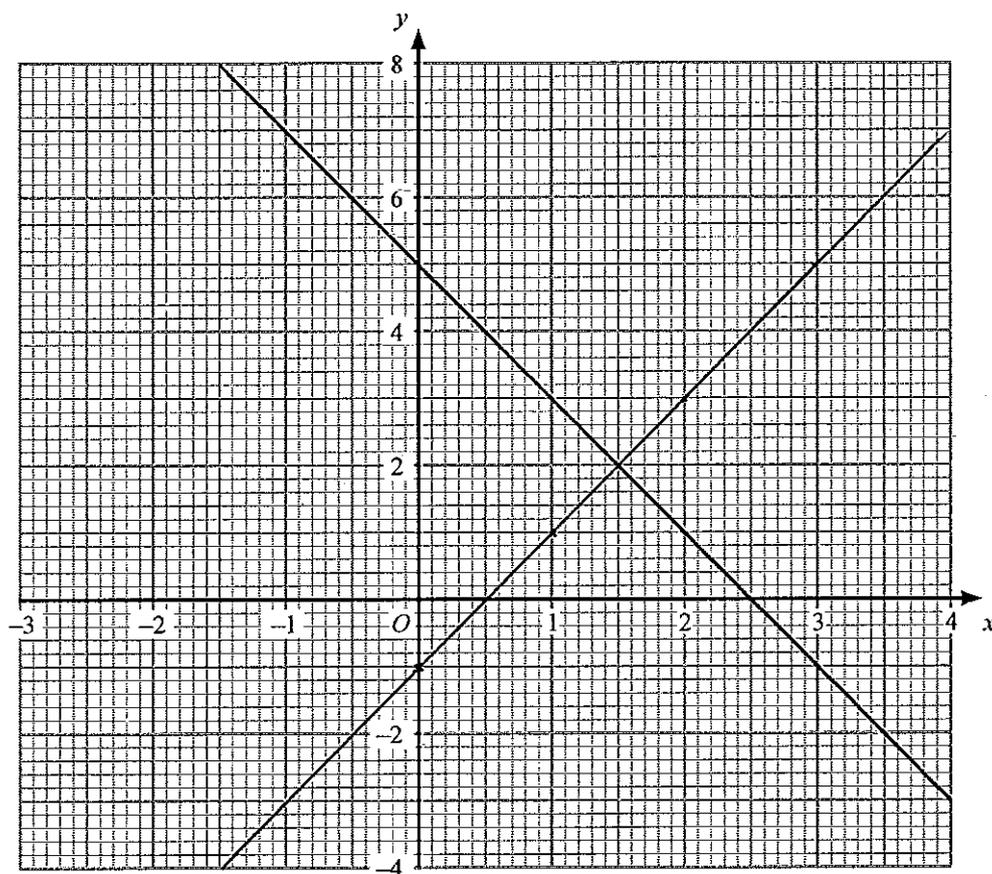
$$\begin{aligned} 3y + 2x &= 12 \\ y &= x - 1 \end{aligned}$$

$$\begin{aligned} x &= \dots\dots\dots 3 \dots\dots\dots \\ y &= \dots\dots\dots 2 \dots\dots\dots \end{aligned}$$

(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
y	-3	-1	1	3	5	7

(2)

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

(2)

(c) Use your diagram to solve the simultaneous equations

$$y + 2x = 5$$

$$y = 2x - 1$$

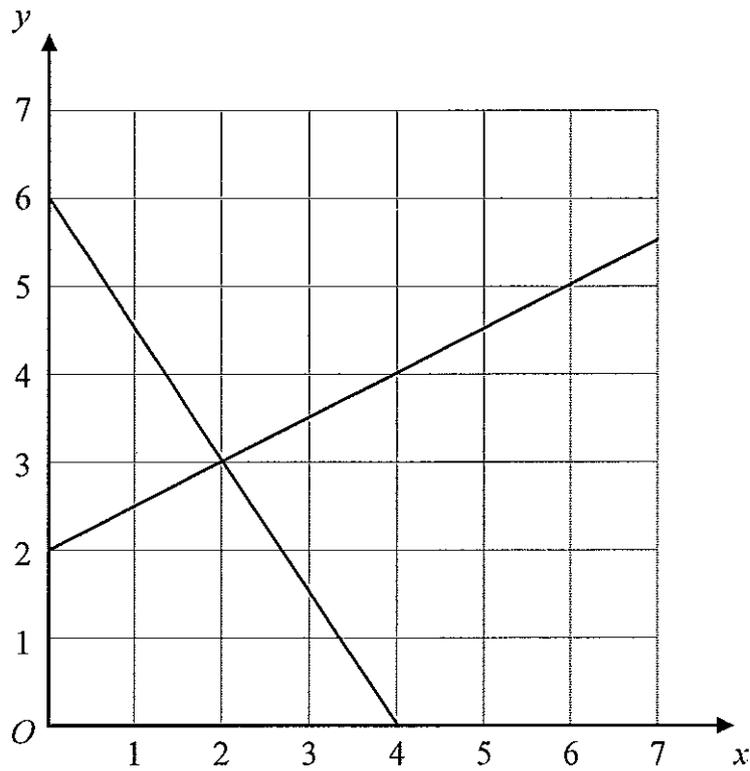
$$x = \dots\dots\dots 1.5 \dots\dots\dots$$

$$y = \dots\dots\dots 2 \dots\dots\dots$$

(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

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

$$2y + 3x = 12$$

$$x = \dots\dots\dots 2 \dots\dots\dots y = \dots\dots\dots 3 \dots\dots\dots$$

(2)

(Total 2 marks)

4.

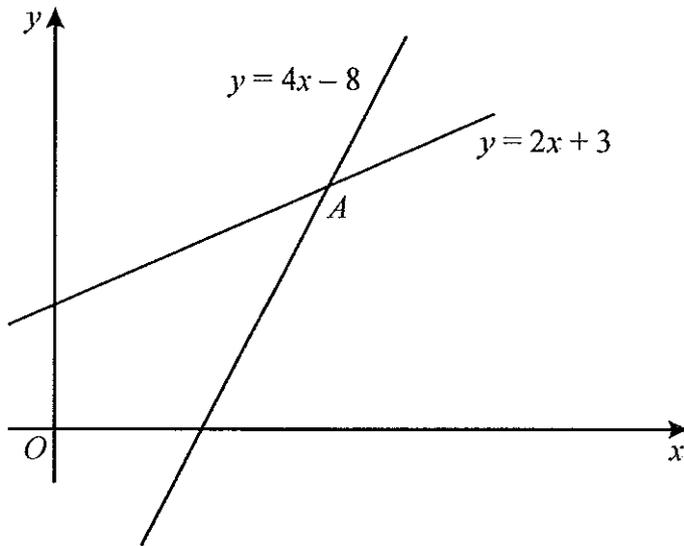


Diagram **NOT** accurately drawn

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 .

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

$$2x - 8 = 3$$

$$2x = 11$$

$$x = 5.5$$

$$y = 2(5.5) + 3$$
$$= 14$$

$$(\dots\dots\dots 5.5, \dots\dots\dots 14 \dots\dots\dots)$$

(Total 3 marks)