1 L is the straight line with equation $y = 2x - 5$ **C**

is a graph with equation $y^2 = 6x^2 - 25x - 8$

Using algebra, find the coordinates of the points of intersection of **L** and **C**.
You must show all your working.

(..... , ...)

(..... , ...)

(Total for Question 1 is 5 marks)

2 Solve the simultaneous equations

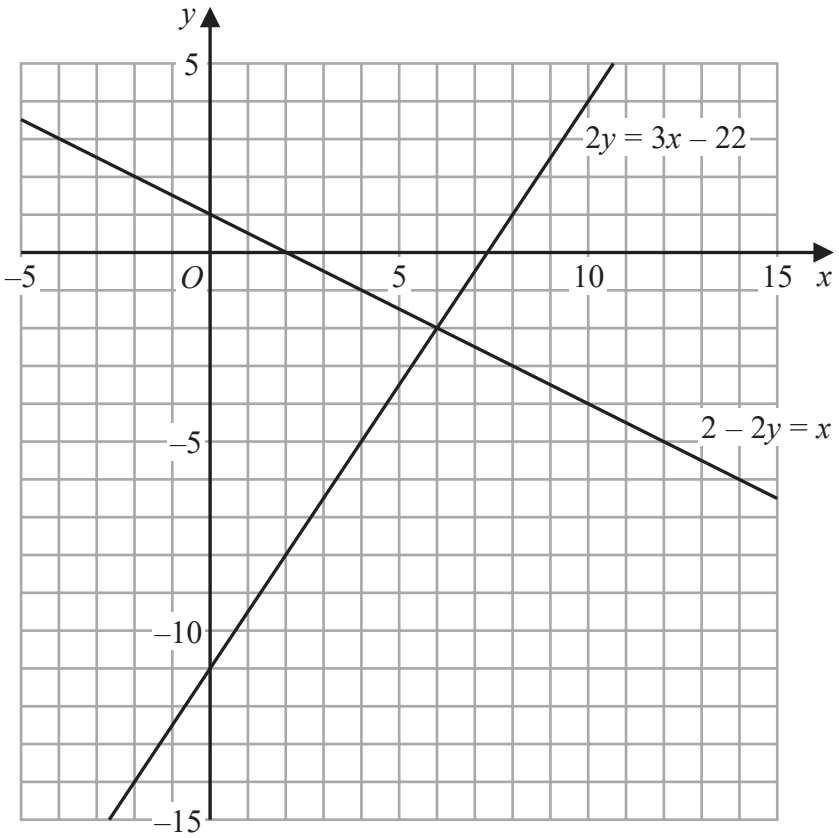
$$5x + 2y = 11$$
$$4x + 3y = 6$$

x = ...

y = ...

(Total for Question 2 is 4 marks)

3



Use these graphs to solve the simultaneous equations

$$2 - 2y = x$$
$$2y = 3x - 22$$

$x =$ .....

$y =$ .....

(Total for Question 3 is 1 mark)

4 Use algebra to solve the simultaneous equations

$$2x + 6y = 5$$
$$3x - 4y = -12$$

x = ...

y = ...

(Total for Question 4 is 4 marks)

5 Solve the simultaneous equations

$$5x - 2y = 23$$
$$2x - 3y = 18$$

x = ...

y = ...

(Total for Question 5 is 4 marks)