

1 Solve the simultaneous equations

$$x + 3y = 12$$

$$5x - y = 4$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for Question 1 is 3 marks)

2 Solve the simultaneous equations

$$\begin{aligned}3x + y &= -4 \\3x - 4y &= 6\end{aligned}$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for Question 2 is 3 marks)

3 Solve the simultaneous equations

$$\begin{aligned}5x + y &= 21 \\ x - 3y &= 9\end{aligned}$$

$x =$

$y =$

(Total for Question 3 is 3 marks)

- 4 3 kg of carrots cost £1.80
2 kg of carrots and 5 kg of potatoes cost a total of £3.45

Work out the total cost of 4 kg of carrots and 2 kg of potatoes.
You must show all your working.

£.....

(Total for Question 4 is 4 marks)

5 Solve the simultaneous equations

$$5x + 2y = 27$$

$$6x + 4y = 28$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(Total for Question 5 is 3 marks)

- 6 5 tins of soup have a total weight of 1750 grams.
4 tins of soup and 3 packets of soup have a total weight of 1490 grams.

Work out the total weight of 3 tins of soup and 2 packets of soup.

..... grams

(Total for Question 6 is 4 marks)

7 Solve the simultaneous equations

$$3x - 4y = 11$$

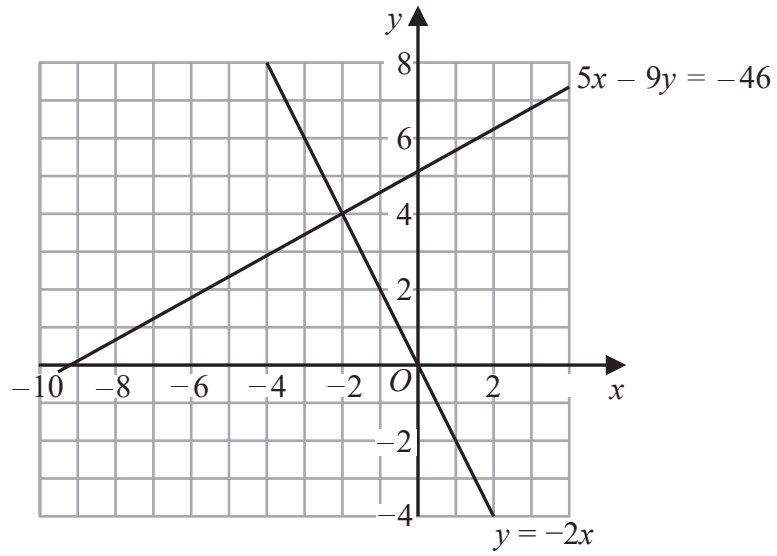
$$9x + 2y = 5$$

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

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

(Total for Question 7 is 3 marks)

8



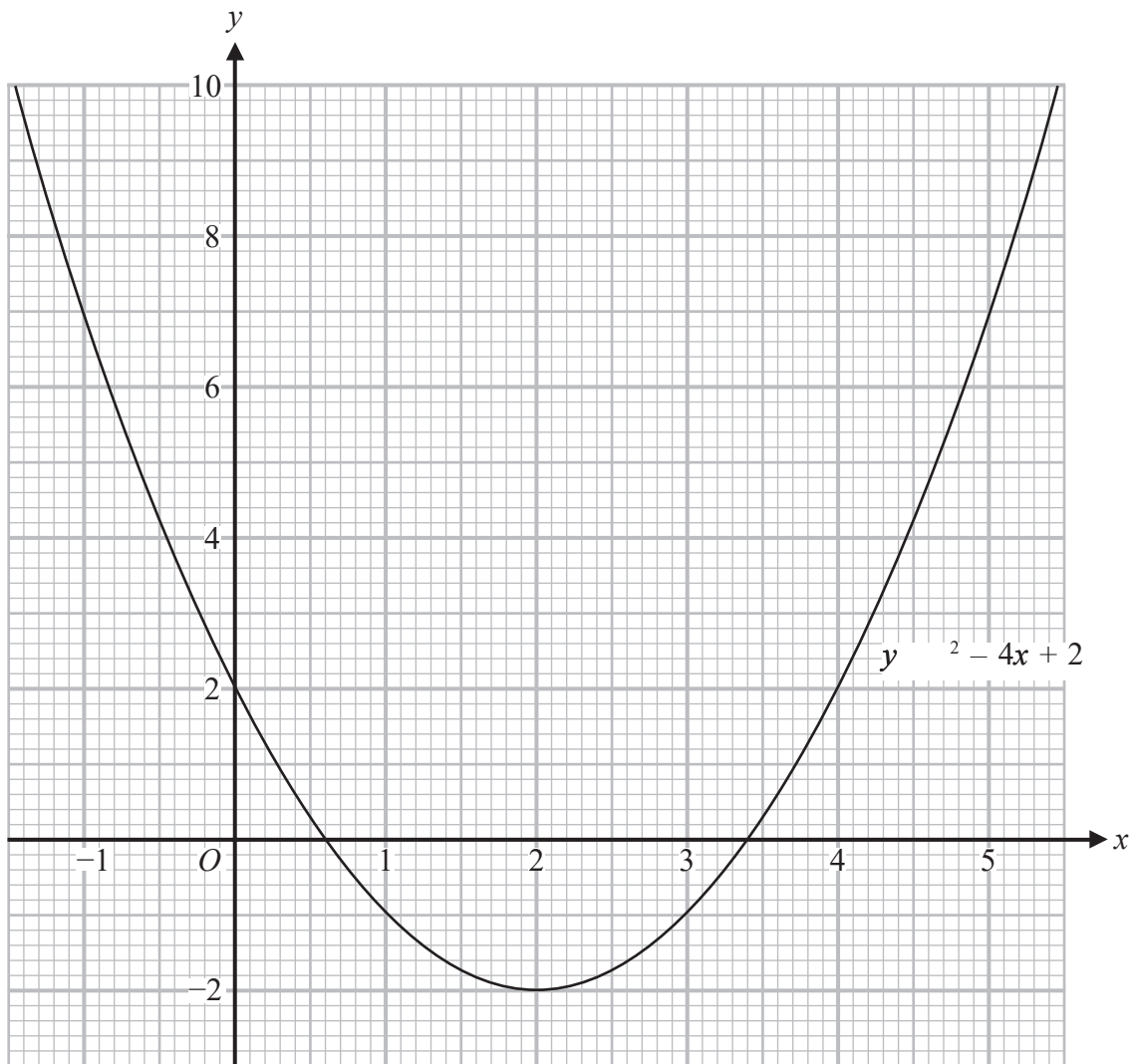
(a) Use these graphs to solve the simultaneous equations

$$\begin{aligned} 5x - 9y &= -46 \\ y &= -2x \end{aligned}$$

$x = \dots\dots\dots$

$y = \dots\dots\dots$

(1)



(b) Use this graph to find estimates for the solutions of the quadratic equation $x^2 - 4x + 2 = 0$

.....
(2)

(Total for Question 8 is 3 marks)