Name ANSWERS	Class

MATHS TEACHER HUB

www.MathsTeacherHub.com

Coordinates

(9 – 1) Topic booklet

Foundation

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.	Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
  – *there may be more space than you need.*
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out.**
- If the question is a **1F** question you are not allowed to use a calculator.
- If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

Information

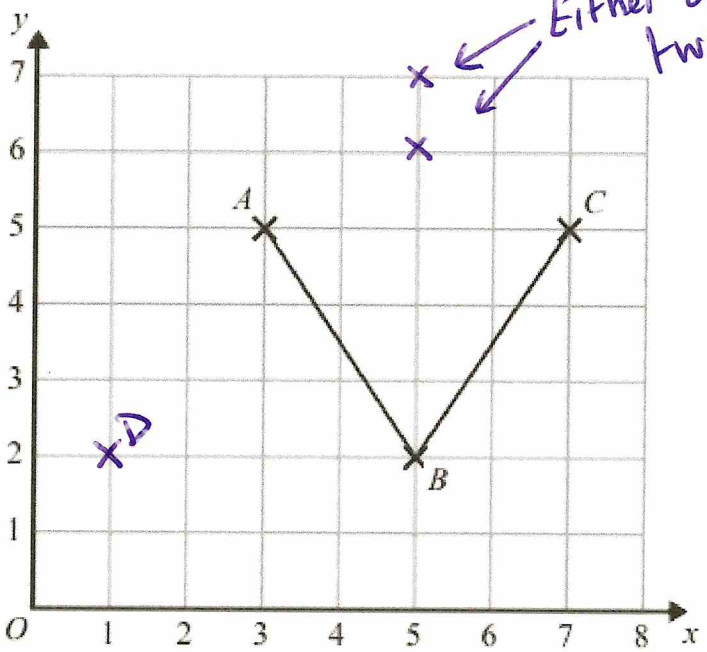
- The marks for **each** question are shown in brackets
  – *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Answer ALL questions
Write your answers in the space provided.
You must write down all the stages in your working.

4 Here is a grid showing the points A, B and C.



(a) Write down the coordinates of the point A.

(3, 5)

(1)

(b) On the grid, mark with a cross (×) the point (1, 2).
Label this point D.

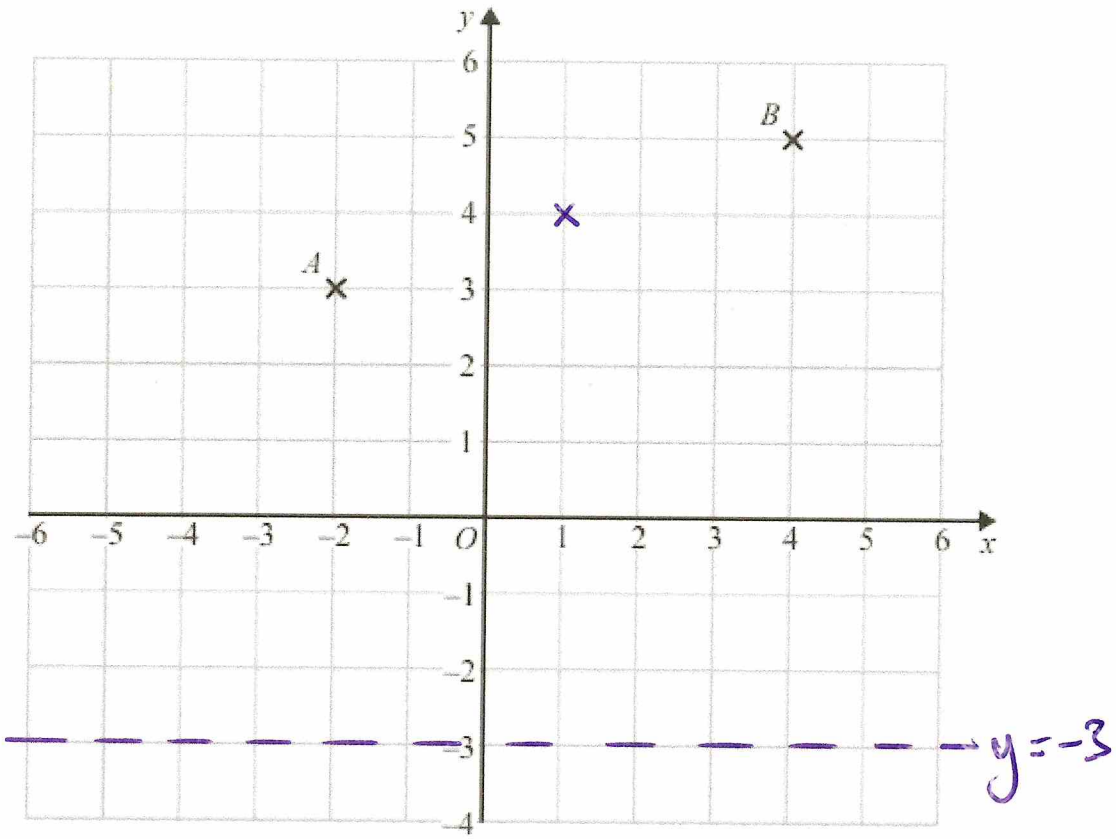
(1)

(c) On the grid, mark with a cross (×) a point E, so that the quadrilateral $ABCE$ is a kite.

(1)

(Total for Question 4 is 3 marks)

5



(a) Write down the coordinates of point B.

(4 , 5)

(1)

(b) Find the coordinates of the midpoint of AB.

(1 , 4)

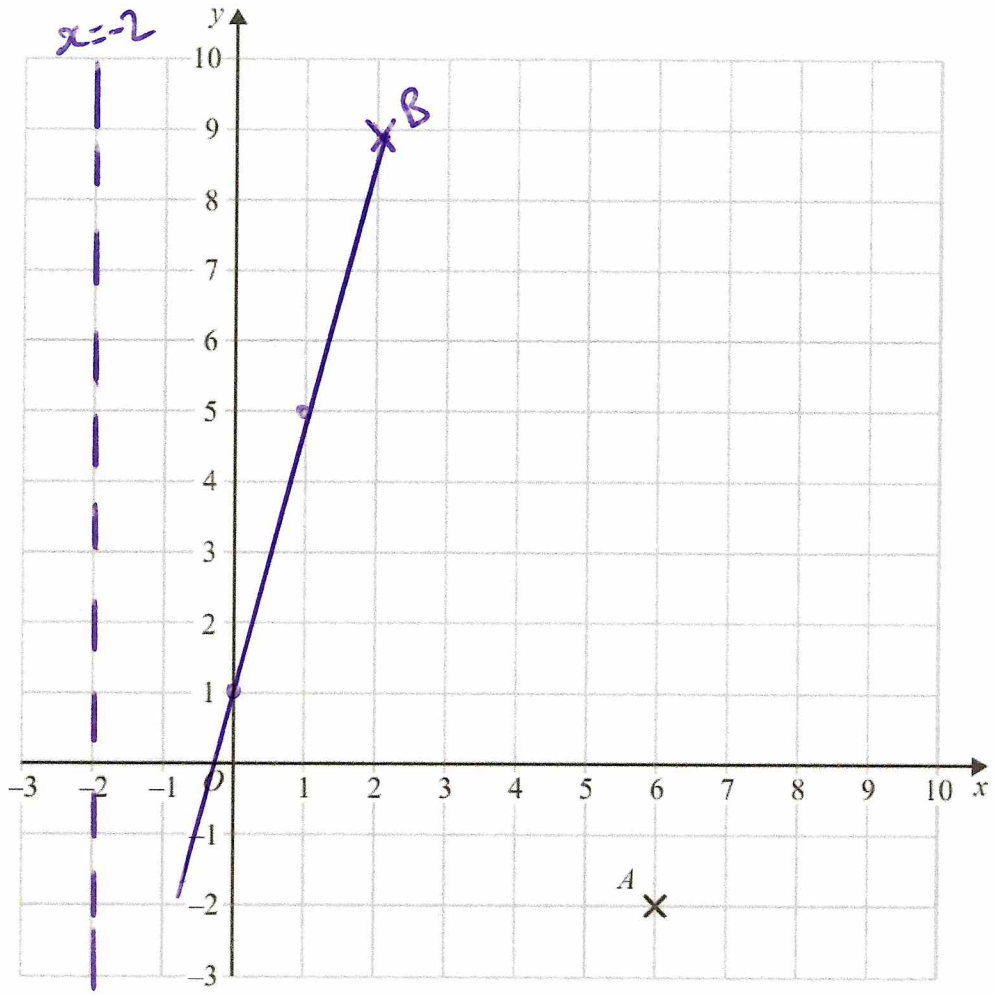
(1)

(c) On the grid, draw the line with equation $y = -3$

(1)

(Total for Question 5 is 3 marks)

7



(a) Write down the coordinates of the point A.

(6 , -2)

(1)

(b) (i) Plot the point with coordinates (2, 9).
Label this point B.

(1)

(ii) Does point B lie on the straight line with equation $y = 4x + 1$?
You must show how you get your answer.

Yes it does $9 = 4(2)+1$

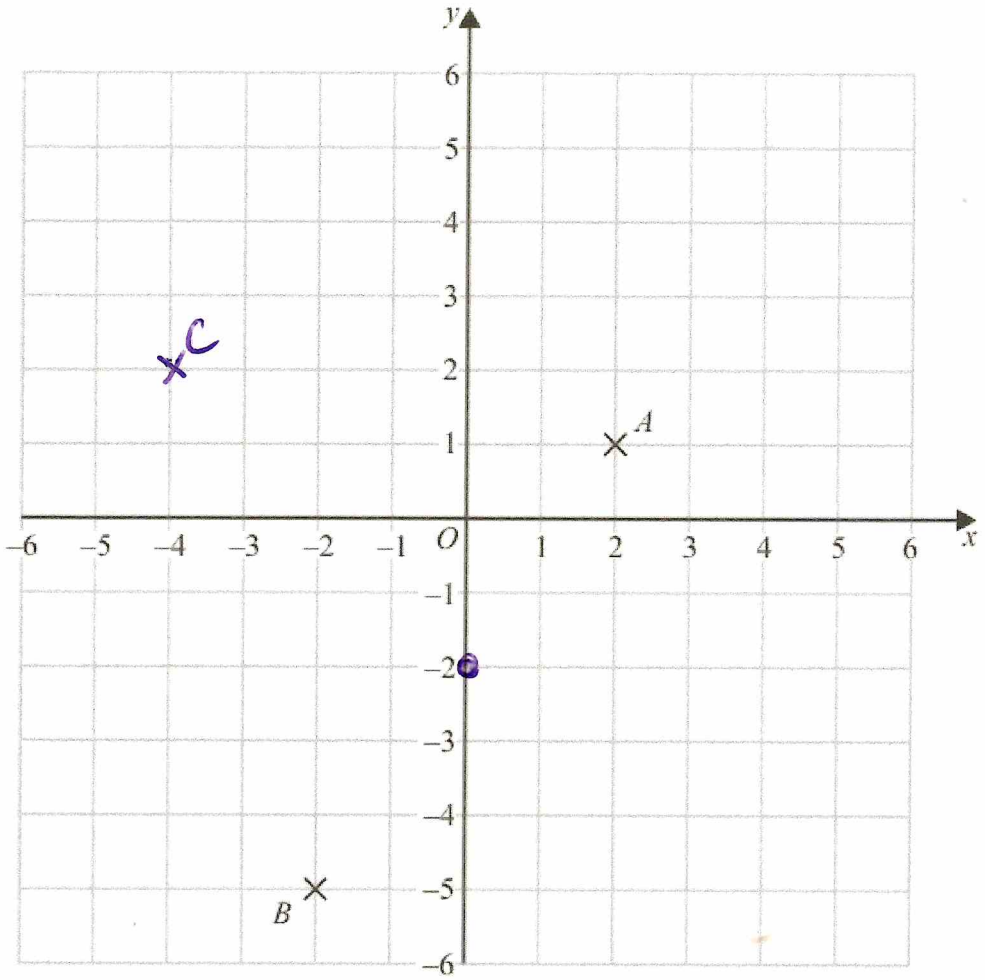
(1)

(c) On the grid, draw the line with equation $x = -2$

(1)

(Total for Question 7 is 4 marks)

8 The points A and B are shown on the grid.



(a) Write down the coordinates of the point A.

(2 , 1)

(1)

(b) Find the coordinates of the midpoint of AB.

(0 , -2)

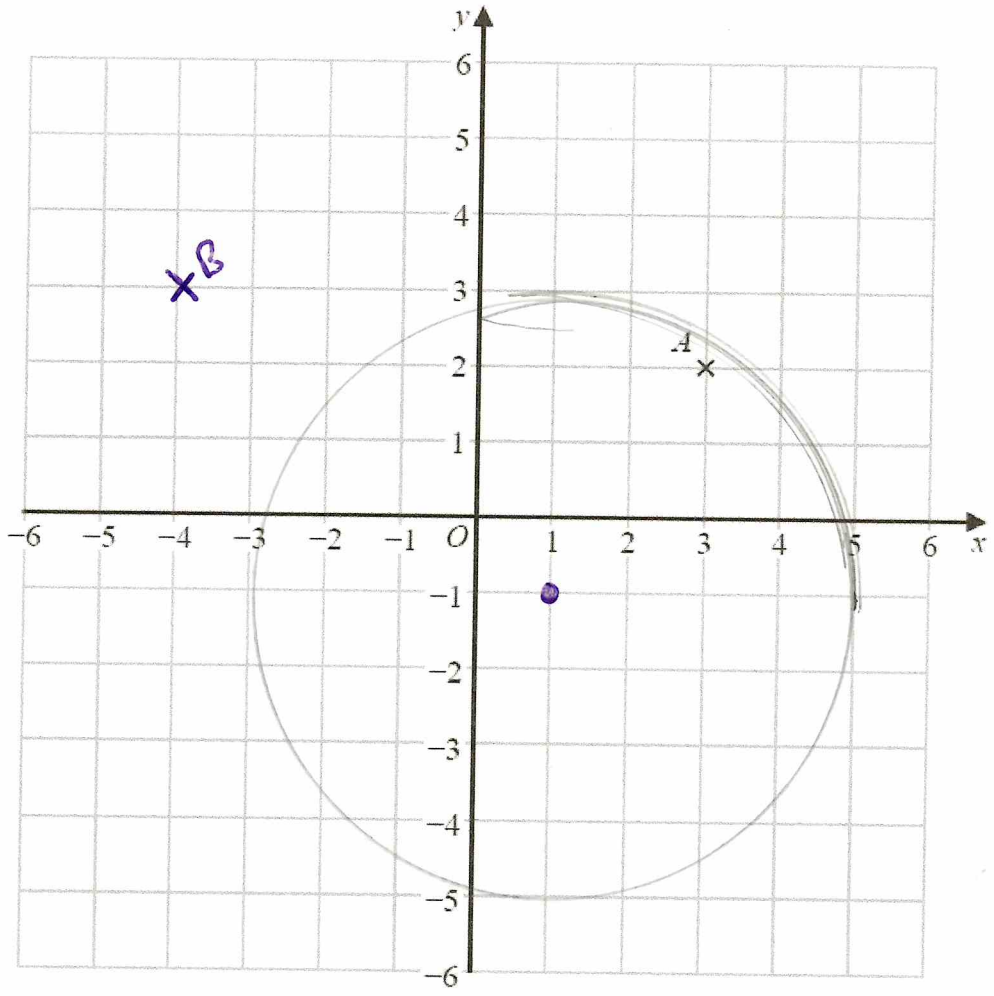
(2)

(c) On the grid, mark with a cross (×) the point with coordinates (−4, 2)
Label this point C.

(1)

(Total for Question 8 is 4 marks)

8 Here is a centimetre grid.



(a) Write down the coordinates of point A.

(3 , 2)

(1)

(b) On the grid, mark with a cross (×) the point with coordinates $(-4, 3)$
Label this point B.

(1)

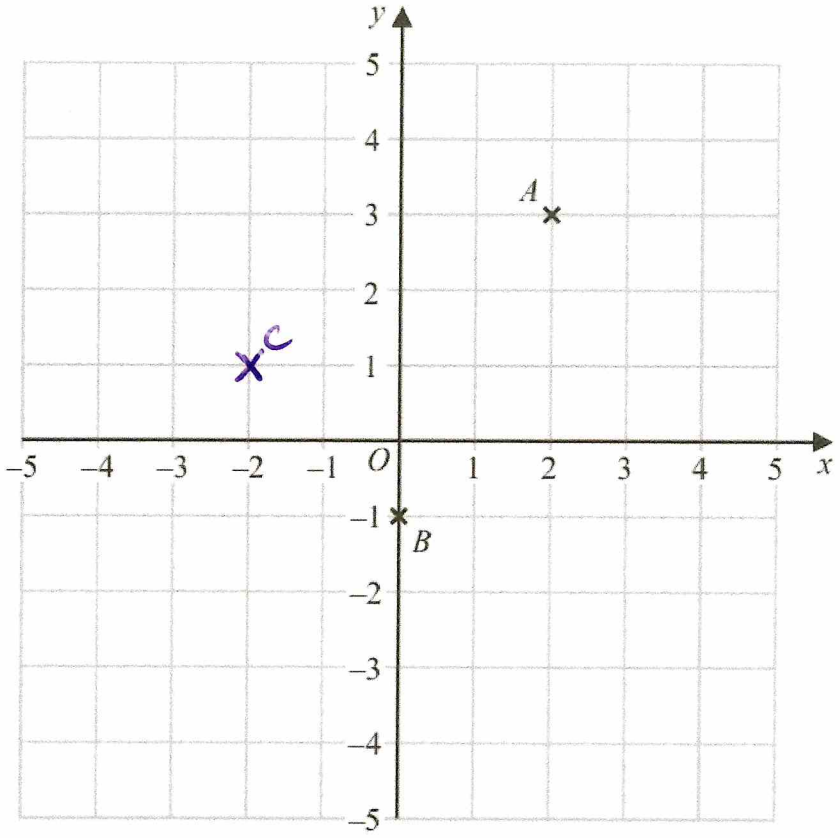
(c) On the grid, draw the circle with

centre $(1, -1)$
and radius 4 cm.

(2)

(Total for Question 8 is 4 marks)

8



(a) Write down the coordinates of the point A.

(2 , 3)

(1)

(b) Write down the coordinates of the point B.

(0 , -1)

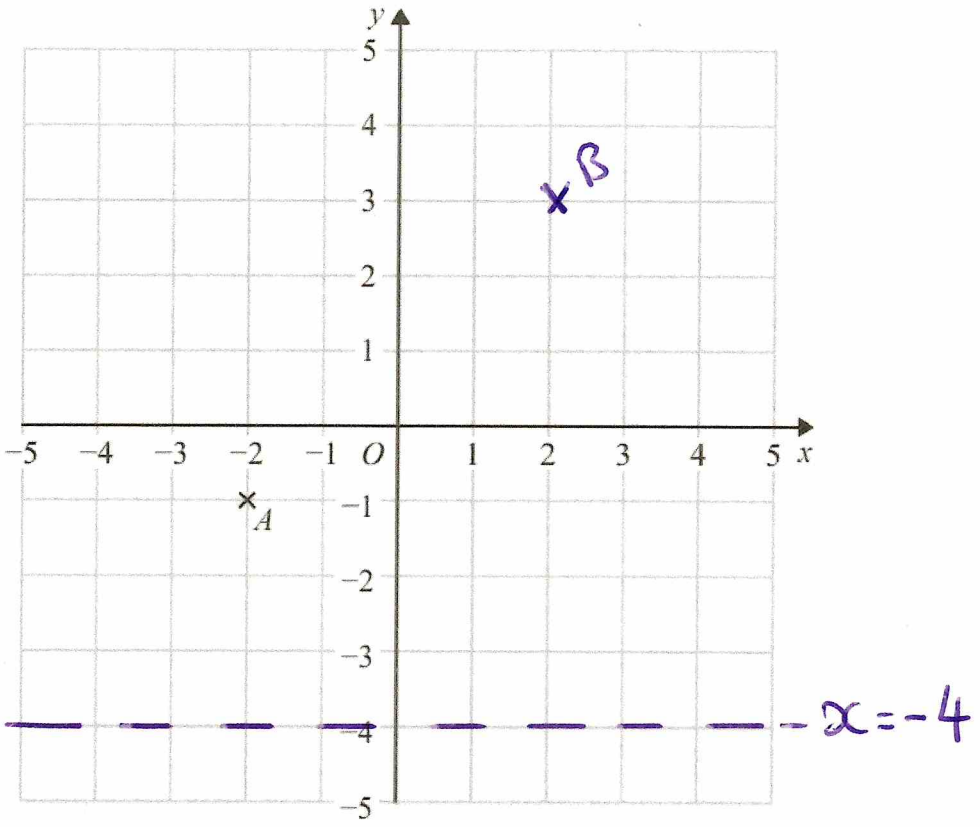
(1)

(c) On the grid, mark with a cross (×) the point (–2, 1)
Label this point C.

(1)

(Total for Question 8 is 3 marks)

8



(a) Write down the coordinates of point A.

(-2 , -1)

(1)

(b) On the grid, mark with a cross (×) the point (2, 3)
Label this point B.

(1)

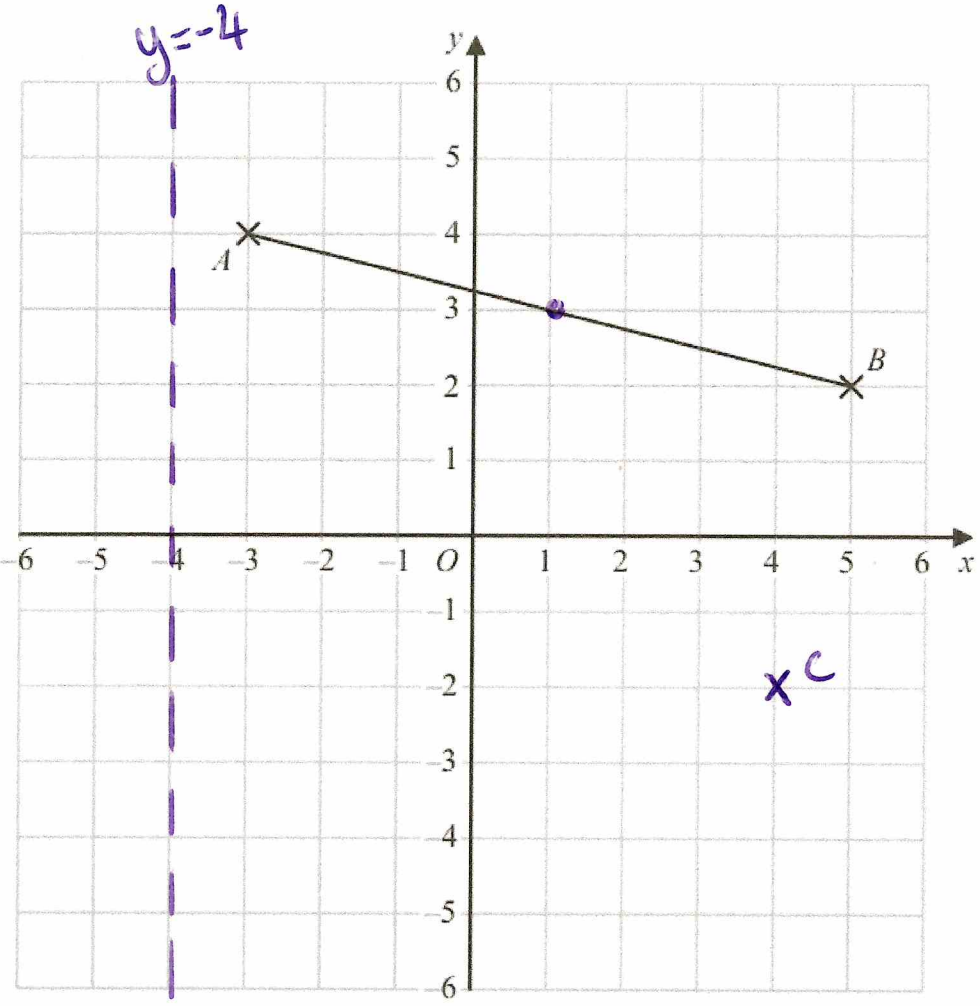
(c) On the grid, draw the line with equation $x = -4$

(1)

November 2018 – Paper 1F

(Total for Question 8 is 3 marks)

9



(a) Write down the coordinates of point B.

(5 , 2)

(1)

(b) Plot the point with coordinates $(4, -2)$
Label this point C.

(1)

(c) Write down the coordinates of the midpoint of AB.

(1 , 3)

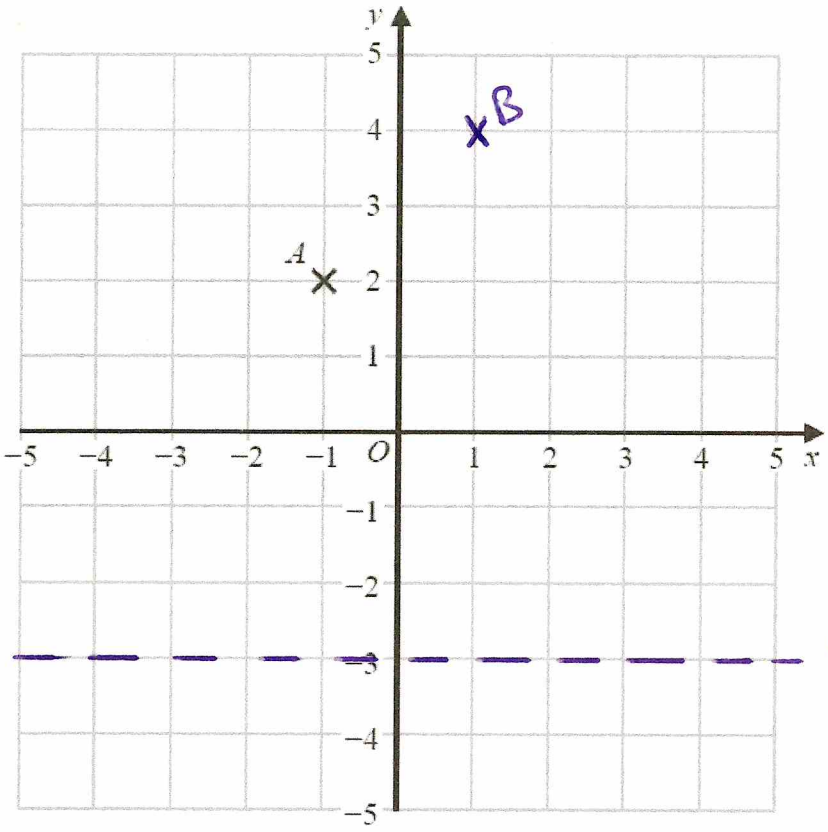
(1)

(d) Draw the line with equation $y = -4$

(1)

(Total for Question 9 is 4 marks)

9



(a) Write down the coordinates of point A.

(−1 , 2)

(1)

(b) On the grid, mark with a cross (×) the point (1, 4)
Label this point B.

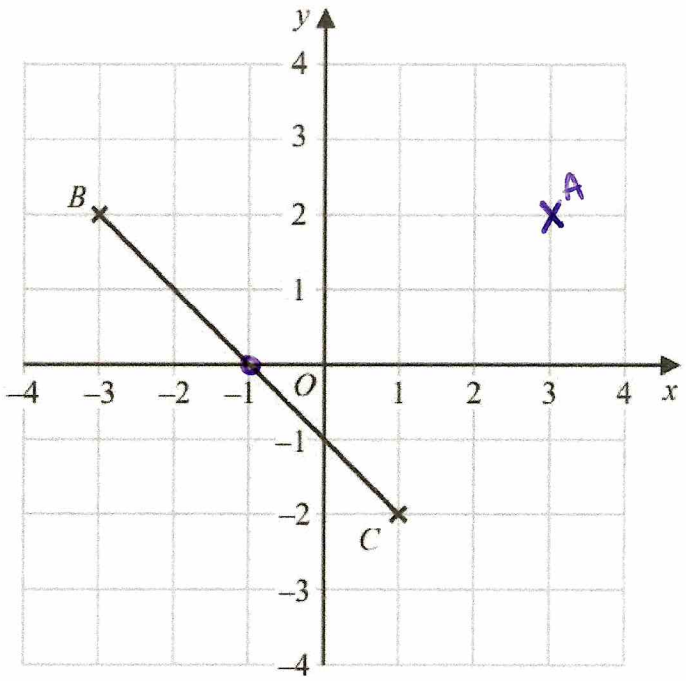
(1)

(c) On the grid, draw the line with equation $y = -3$

(1)

(Total for Question 9 is 3 marks)

10



(a) Plot the point with coordinates (3, 2)
Label this point *A*.

(1)

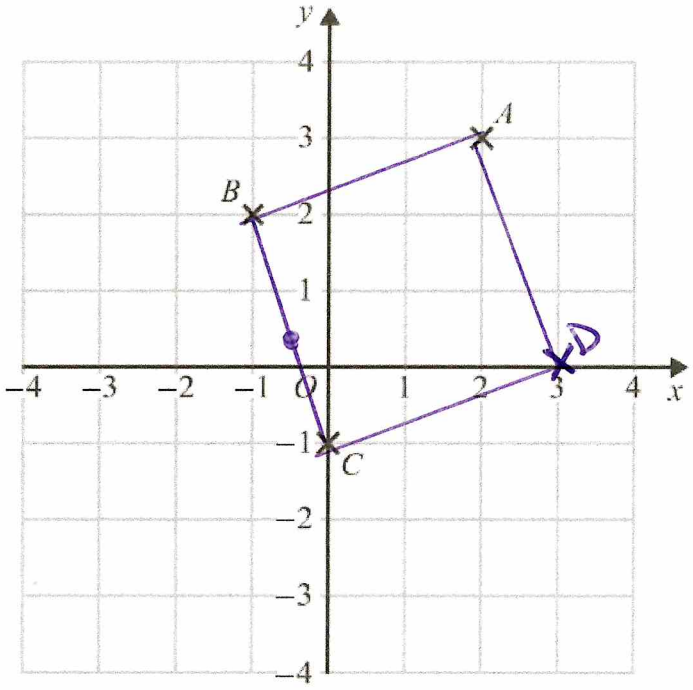
(b) Write down the coordinates of the midpoint of *BC*.

(-1 , 0)

(1)

(Total for Question 10 is 2 marks)

14



(a) Write down the coordinates of point C.

(0 , -1)

(1)

$ABCD$ is a square.

(b) On the grid, mark with a cross (X) the point D so that $ABCD$ is a square.

(1)

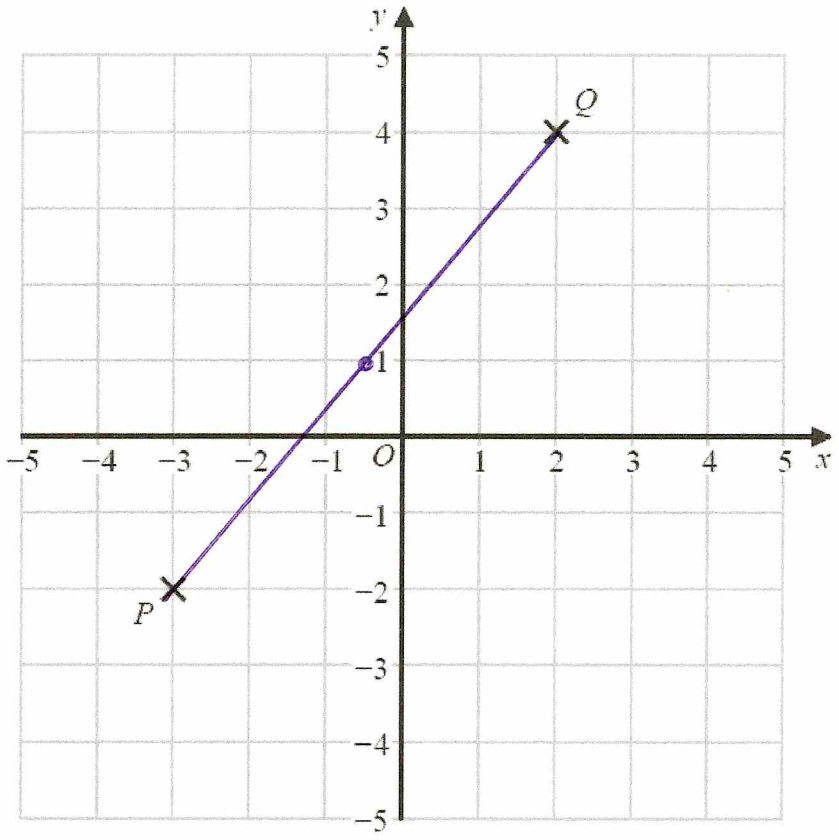
(c) Write down the coordinates of the midpoint of the line segment BC.

(-0.5 , 0.5)

(1)

(Total for Question 14 is 3 marks)

15



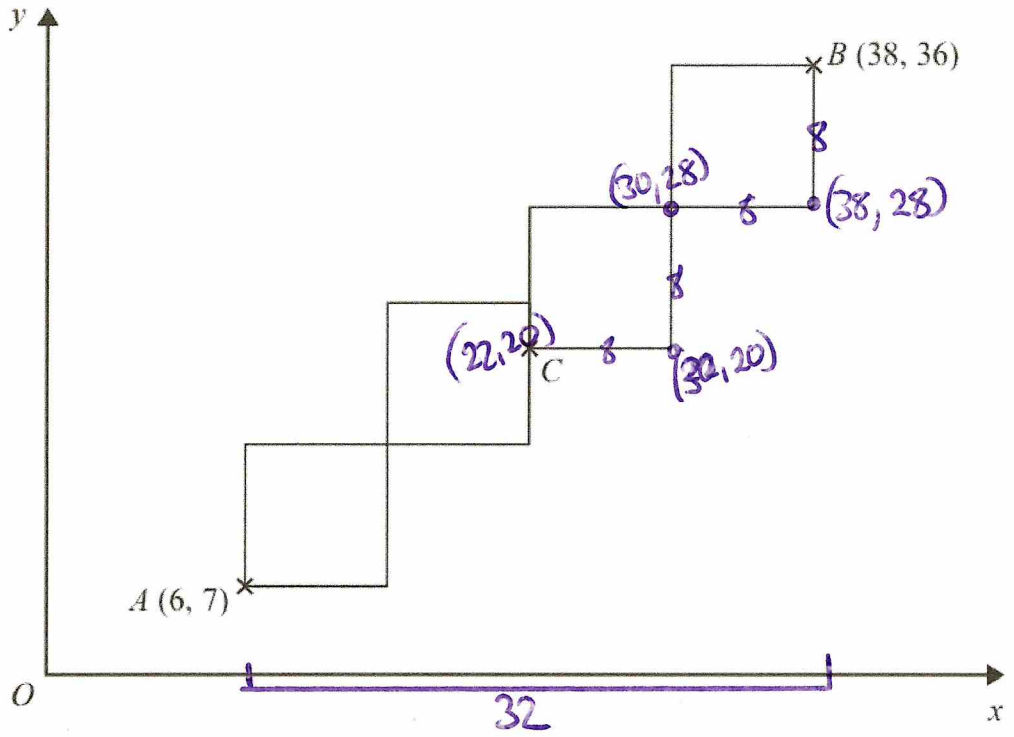
Find the coordinates of the midpoint of PQ.

(-0.5 , 1)

(Total for Question 15 is 2 marks)

24 A pattern is made from four identical squares.

The sides of the squares are parallel to the axes.



Point A has coordinates (6, 7)
Point B has coordinates (38, 36)
Point C is marked on the diagram.

Work out the coordinates of C.

Each square = 8

(22 , 20)

(Total for Question 24 is 5 marks)