Edexcel GCSE
Mathematics (Linear) – 1MA0

COORDINATES

Materials required for examination	**Items included with question papers**
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.	Nil

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.
Calculators may be used.

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.
Questions labelled with an **asterisk** (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.
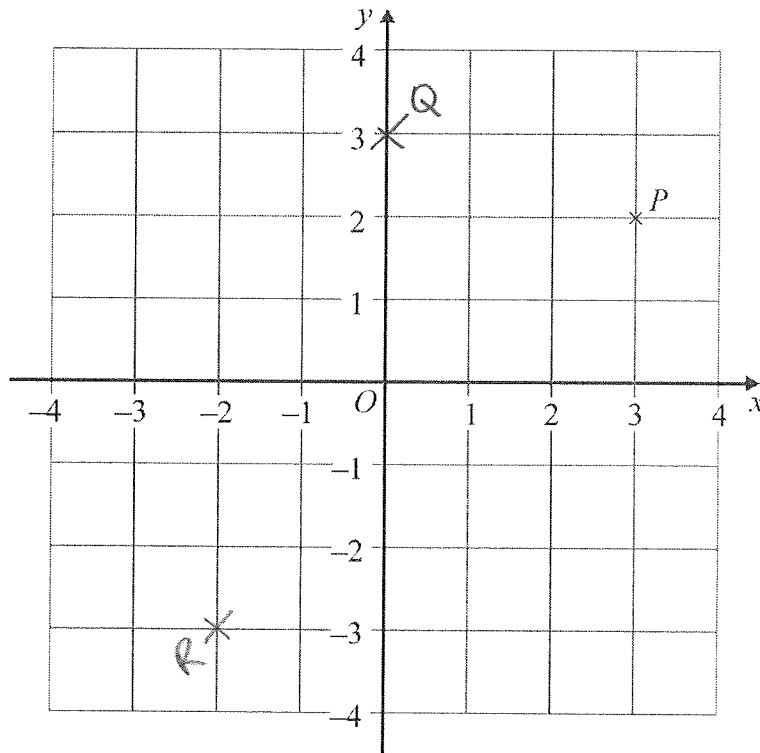
Advice

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.

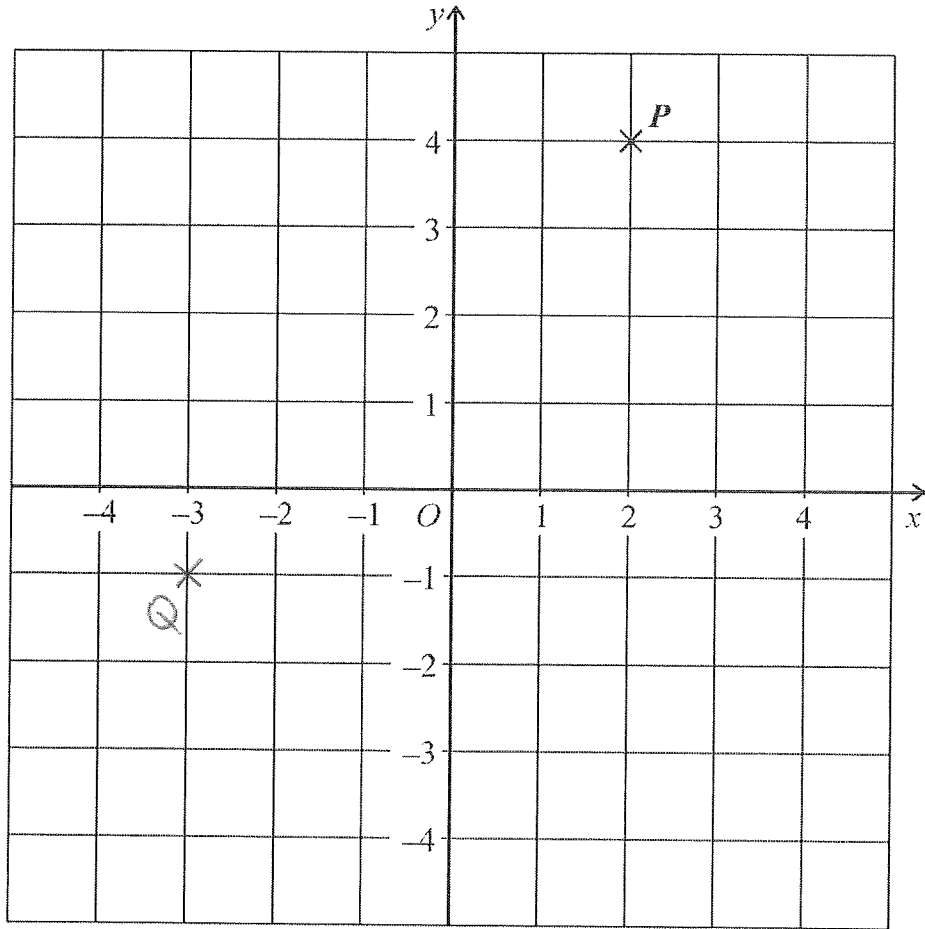**1.**

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

(..3.. , ..2..)

(1)

(b) (i) On the grid, plot the point $(0, 3)$.
Label the point Q.

(ii) On the grid, plot the point $(-2, -3)$.
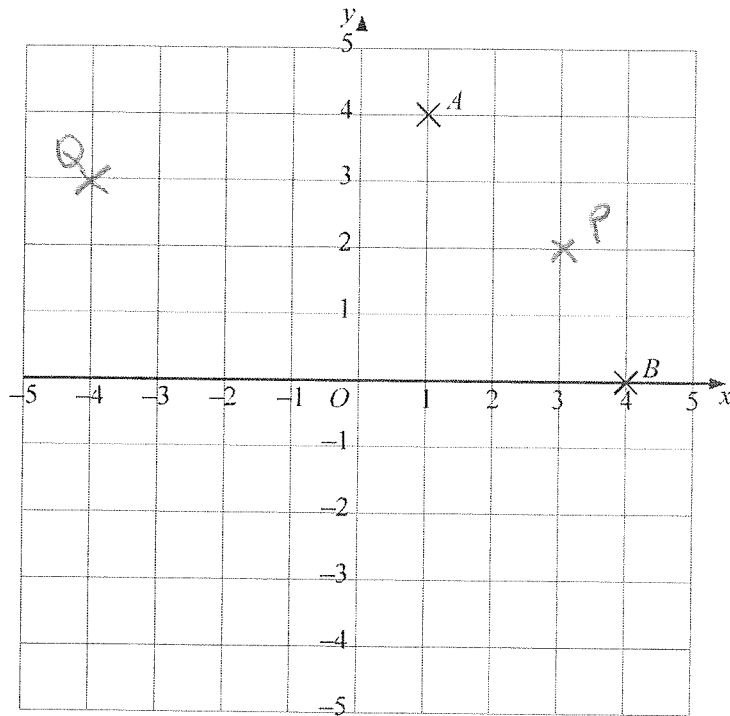Label the point R.

(2)
(Total 3 marks)

2.

(i)   Write down the coordinates of point *P*.

(...2... , ...4...)

(ii)   On the grid, plot the point (−3, −1).
        Label this point with the letter *Q*.

(Total 2 marks)

3.

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

(.....1..... , ...5.....)

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

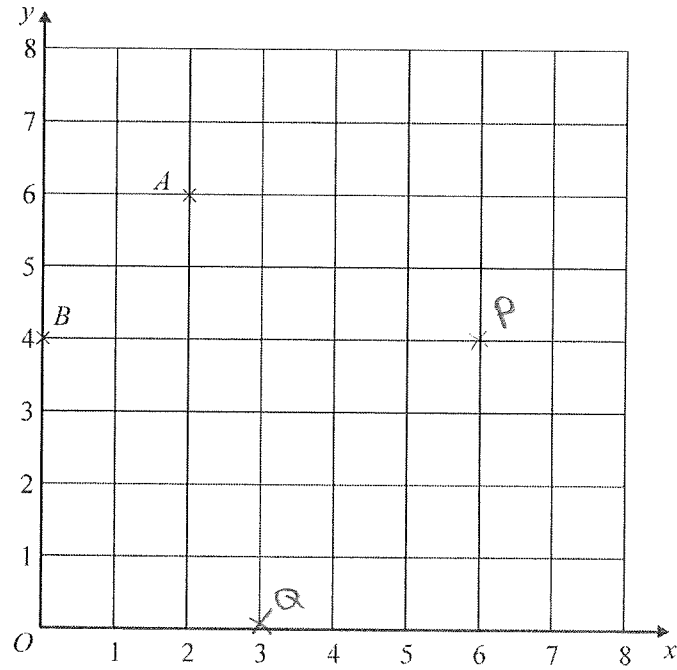(.....4..... , ...0.....)

(2)

(b) (i) On the grid, plot the point (3, 2).
Label this point P.

(ii) On the grid, plot the point (−4, 3).
Label this point Q.

(2)
(Total 4 marks)

4.

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

(...2....., ...6.....)

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

(....0....., ...4.....)

(2)

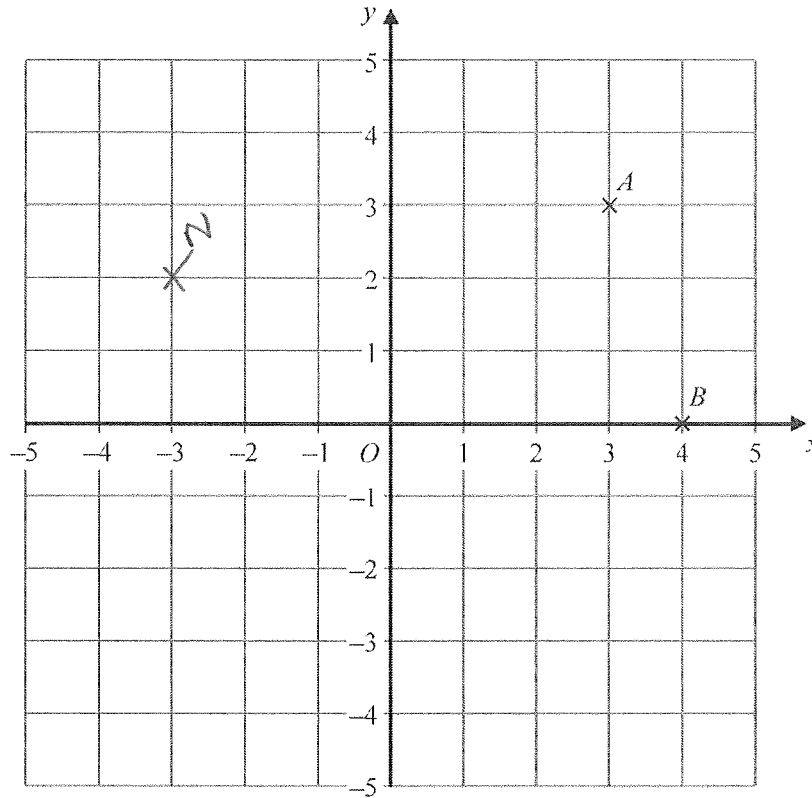(b) (i) On the grid, mark the point (6, 4) with the letter P.

(ii) On the grid, mark the point (3, 0) with the letter Q.

(2)
(Total 4 marks)

5.

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

(...3... , ...3...)

(1)

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

(...4... , ...0...)

(1)

N is the point (−3, 2)

(c) On the grid, mark the point *N* with a cross (×). Label it *N*.

(1)

M is another point.
The *x* coordinate of *M* is the same as the *x* coordinate of *N*.
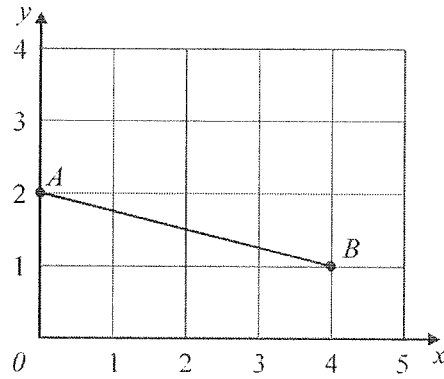The *y* coordinate of *M* is the same as the *y* coordinate of *B*.

(d) Write down the coordinates of the point *M*.

(...−3... , ...0...)

(1)
(Total 4 marks)

6.

(a) Write down the coordinates of the point

(i) *A*,

(...0... , ...2...)

(ii) *B*.

(...4... , ...1...)

(2)

(b) On the grid, mark with a cross (×) the midpoint of the line *AB*.
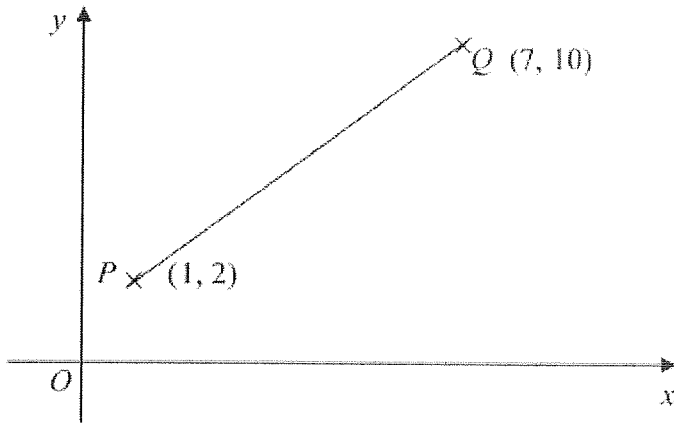
(1)
(Total 3 marks)

7.

Diagram **NOT** accurately drawn
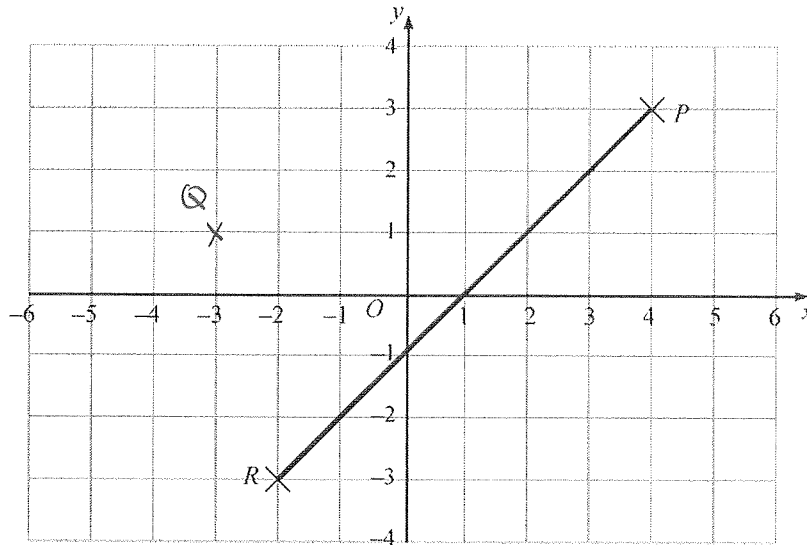
P has coordinates (1, 2)
Q has coordinates (7, 10)

Find the coordinates of the mid-point of the line *PQ*.

(...4... , ...6...)
(Total 2 marks)

8.

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

(.....4....., ...3.....)

(1)

(b) On the grid, mark the point (–3, 1) with a cross (×).
Label the point Q.

(1)

(c) Write down the coordinates of the midpoint of the line PR.

(.....1....., ...0.....)

(2)

(Total 4 marks)

9.

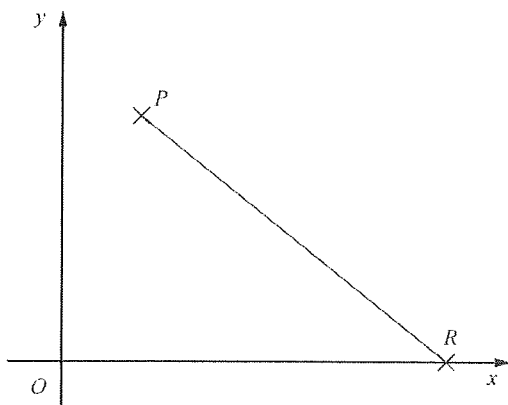Diagram **NOT** accurately drawn

P has coordinates (1, 4)
R has coordinates (5, 0)

Find the coordinates of the mid-point of the line PR.

(.....3....., ...2.....)

(Total 2 marks)