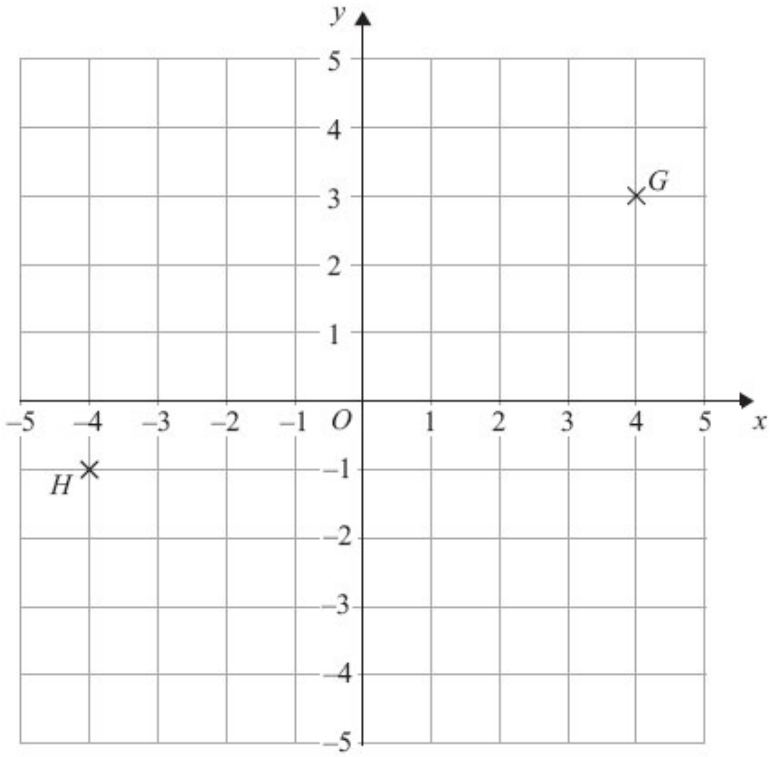
G012 Coordinates

Q1.



(a) (i) Write down the coordinates of the point *G*.

.....

(ii) Write down the coordinates of the point *H*.

.....

(2)

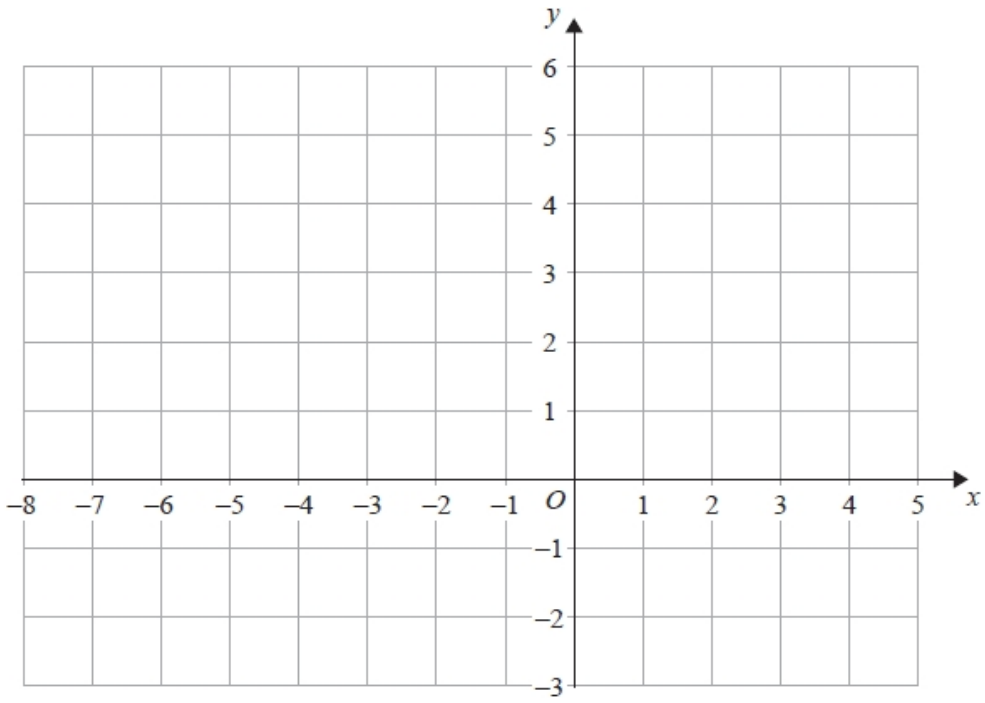
(b) Find the coordinates of the midpoint of *GH.*

.....

(2)

(Total for Question is 4 marks)

Q2.



The points (–3, –1), (–2, 2) and (3, 2) are three vertices of a parallelogram.

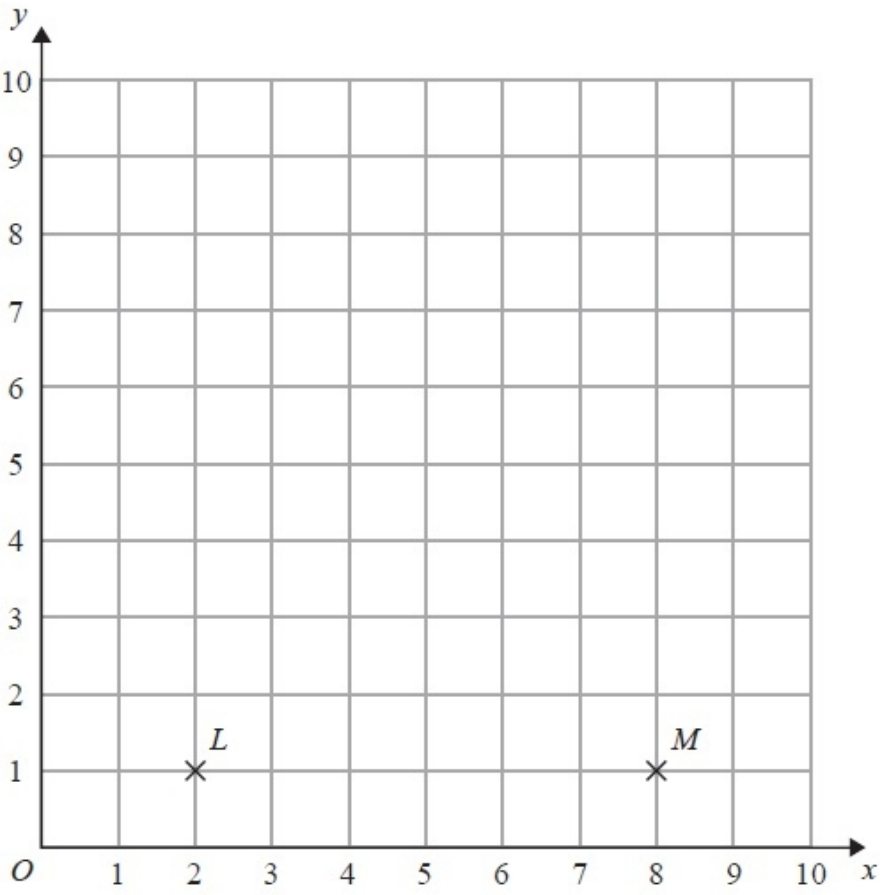
Find the coordinates of the fourth vertex of the parallelogram.

(..... , ...)

(Total for question = 3 marks)

Q3.

Here is a coordinate grid.



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

(....., ...)

(1)

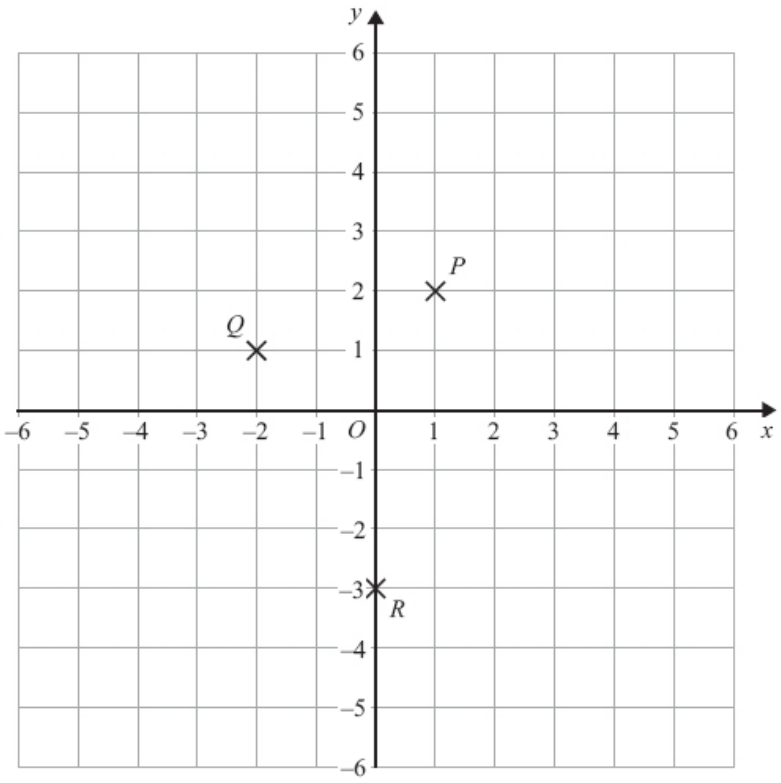
LM is the shortest side of an isosceles triangle.

(b) Mark with a cross (×) a point *N*, so that *LNM* is an isosceles triangle.

(2)

(Total for Question is 3 marks)

Q4.



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

(. . . . . , ...)

(1)

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

(. . . . . , ...)

(1)

P, *Q* and *R* are three vertices of a parallelogram.

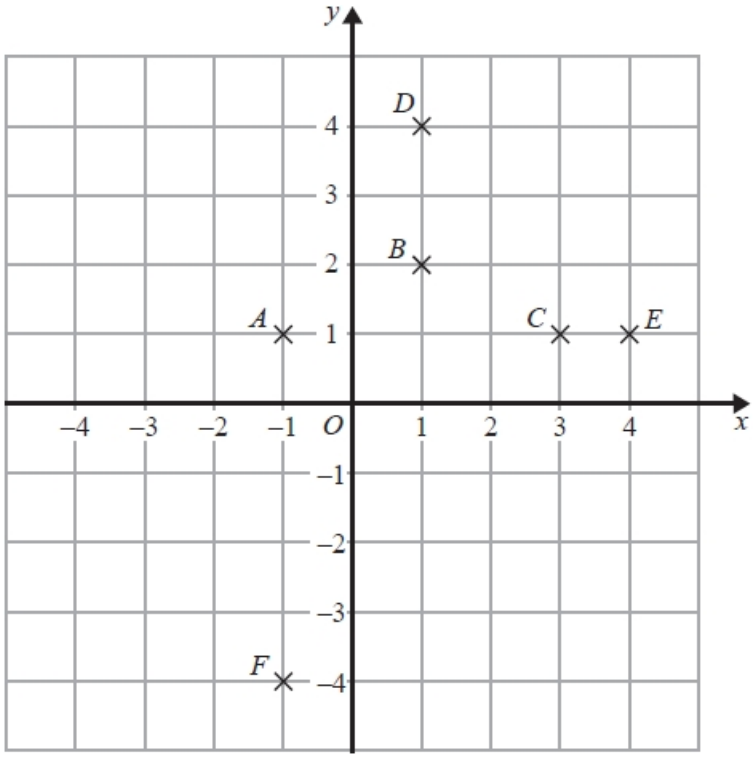
(c) Write down the coordinates of the fourth vertex of this parallelogram.

(. . . . . , ...)

(1)

(Total for Question is 3 marks)

Q5.



The points *A*, *B*, *C*, *D*, *E* and *F* are shown on the grid.

One of these points has coordinates (4, 1).

(a) Which point?

.....

(1)

(b) (i) On the grid, mark with a cross (×) a point *P* such that the shape *ABCP* is a kite.

Label your point *P*.

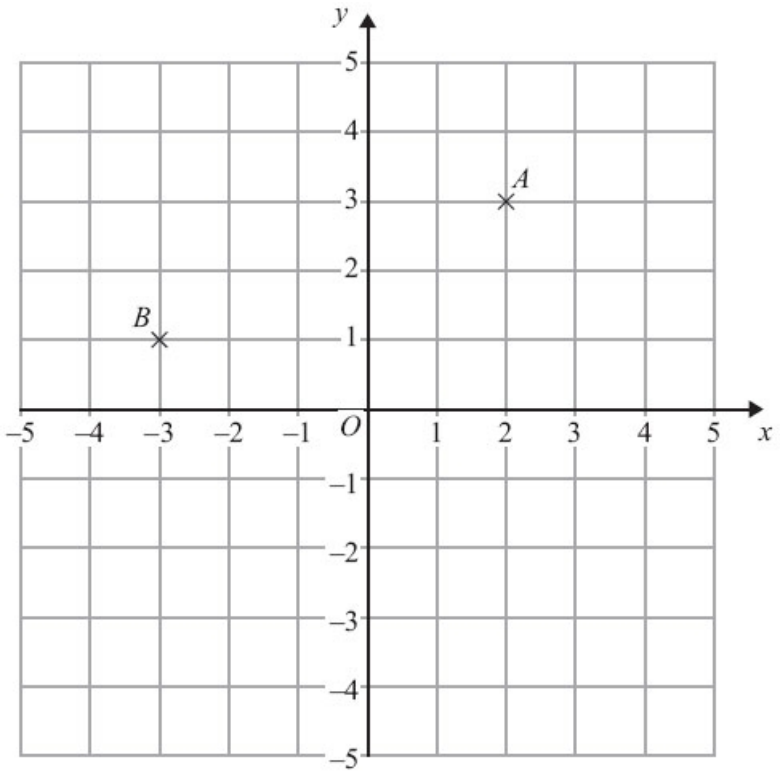
(ii) Write down the coordinates of your point *P*.

(..... , ...)

(2)

(Total for question = 3 marks)

Q6.



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

(. . . . . , ...)

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

(. . . . . , ...)

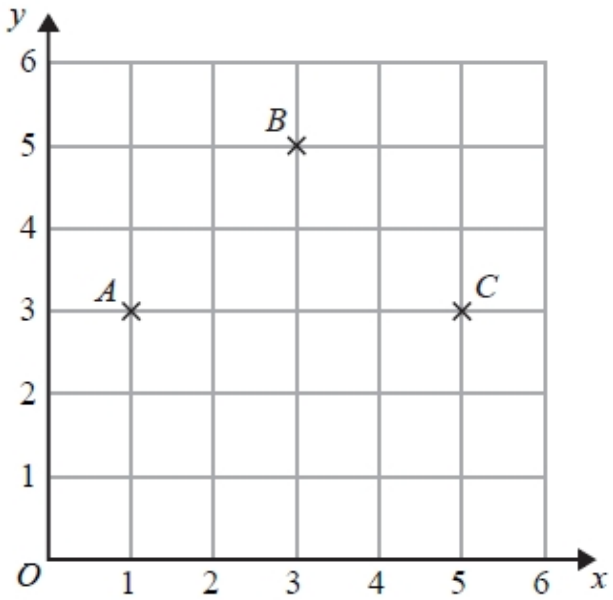
(2)

(b) On the grid, mark with a cross $(\times)$ the point (3, –4).
Label this point *C*.

(1)

(Total for Question is 3 marks)

Q7.



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

(..... , ...)

(1)

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

(..... , ...)

(1)

(c) On the grid, mark with a cross (×) the point *D* so that *ABCD* is a square.
Label this point *D*.

(1)

(Total for Question is 3 marks)