The points A, B and C lie in order on a straight line.

The coordinates of A are (2, 5)The coordinates of B are (4, p)

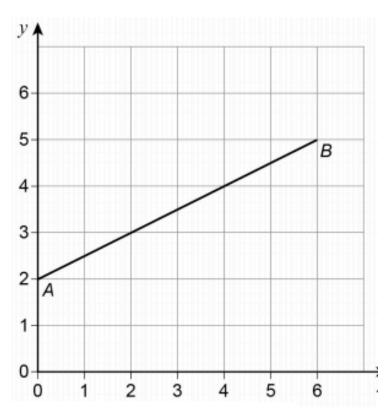
The coordinates of C are (q, 17)

Given that AC = 4AB, find the values of p and q.

Line AB is shown on the grid.

A is the point (0, 2)

B is the point (6, 5)

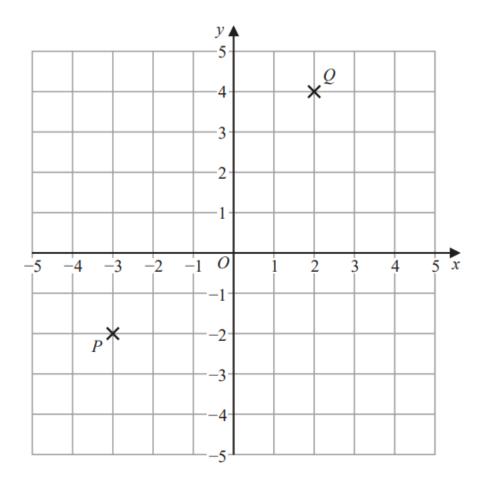


- (a) Work out the coordinates of the midpoint of the line AB.
- (b) C is another point on AB.

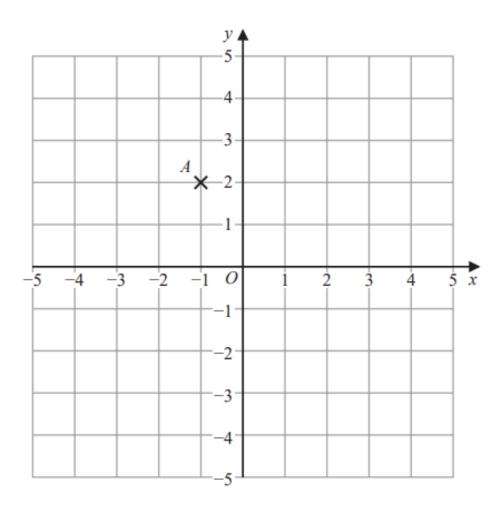
C is closer to B than to A.

The coordinates of C are whole numbers.

Work out the coordinates of C.



Find the coordinates of the midpoint of PQ.

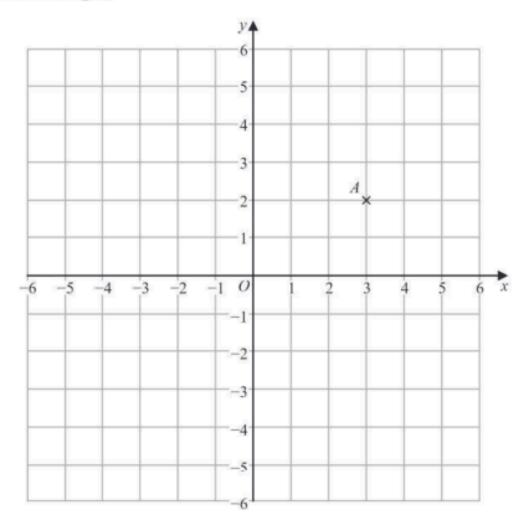


(a) Write down the coordinates of point A.

( .....

- (b) On the grid, mark with a cross (x) the point (1, 4) Label this point B.
- (c) On the grid, draw the line with equation y = -3

Here is a centimetre grid.



(a) Write down the coordinates of point A.

(1)

(b) On the grid, mark with a cross (x) the point with coordinates (−4, 3) Label this point B.

(1)

(c) On the grid, draw the circle with

and radius 4 cm.

(2)

The points L, M and N are such that LMN is a straight line.

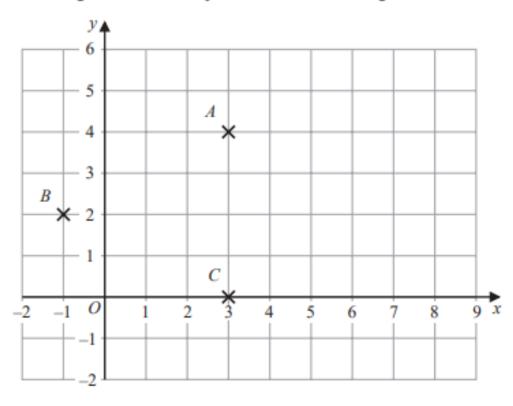
The coordinates of L are (-3, 1)

The coordinates of M are (4, 9)

Given that LM: MN = 2:3,

find the coordinates of N.

The diagram shows three points, A, B and C, on a grid.

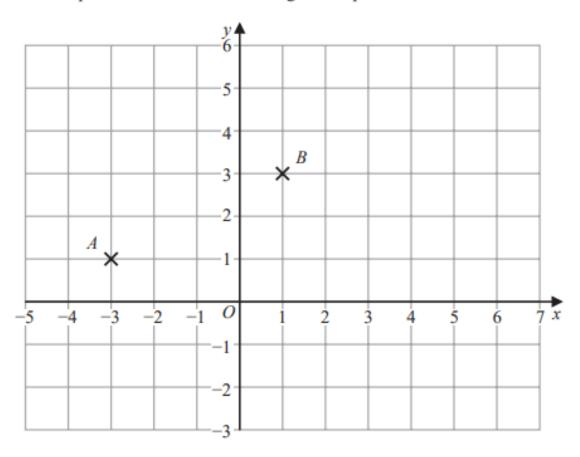


- (a) Write down the coordinates of
  - (i) point A
  - (ii) point B

D is the point such that ABCD is a rhombus.

- (b) On the grid, mark with a cross  $(\times)$  the point DLabel this point D
- (c) Find the coordinates of the midpoint of AB

The diagram shows points A and B marked on a grid of squares.



(a) On the grid, draw the line with equation y = -2

M is the midpoint of AB

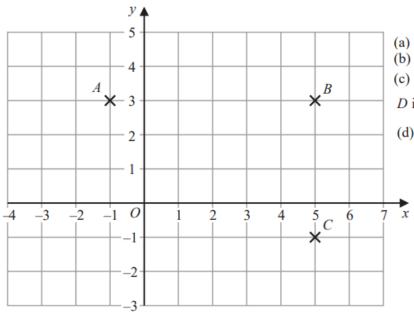
(b) Find the coordinates of M

(......

D is the point with coordinates (5, d) where d > 0. The triangle ABD is an isosceles triangle.

(c) Find the value of d

The three points A, B and C are marked on a centimetre grid.



- (a) Write down the coordinates of A
- (b) Find the coordinates of the midpoint of BC
- (c) Work out the area of triangle ABC

D is the point on the grid so that ABCD is a rectangle

(d) On the grid, mark with a cross  $(\times)$  the point D Label this point D

The points A and B are on a coordinate grid.

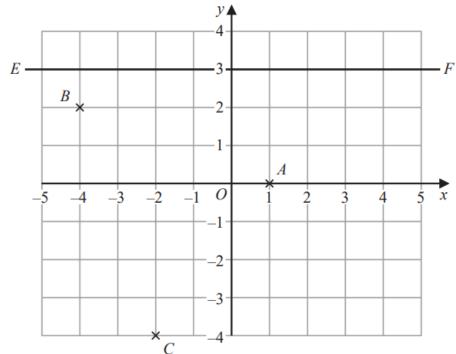
The coordinates of A are (6, 4)

The coordinates of B are (17, j) where j is a constant.

The midpoint of AB has coordinates (k, 15) where k is a constant.

Find the value of j and the value of k

The diagram shows three points, A, B and C, and a line EF on a grid.



- (a) Write down the coordinates of the point A The coordinates of the point D are (3, -2)
- (b) On the grid, mark with a cross  $(\times)$  the position of D Label the cross D
- (c) Find the coordinates of the midpoint of BC
- (d) Write down the equation of the line EF