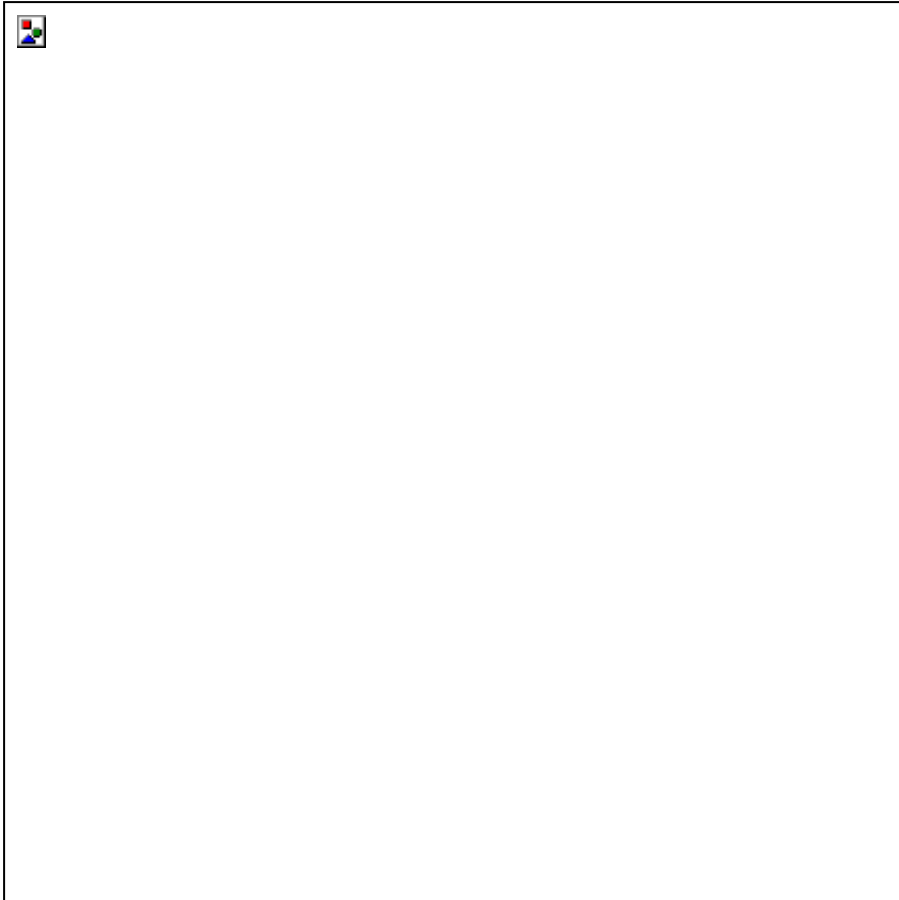


Q1.

The diagram shows three **identical** shaded triangles on coordinate axes.



What are the coordinates of **A** and **B**?

A rectangular input box with a small icon in the top-left corner, intended for the student to write the coordinates of points A and B.

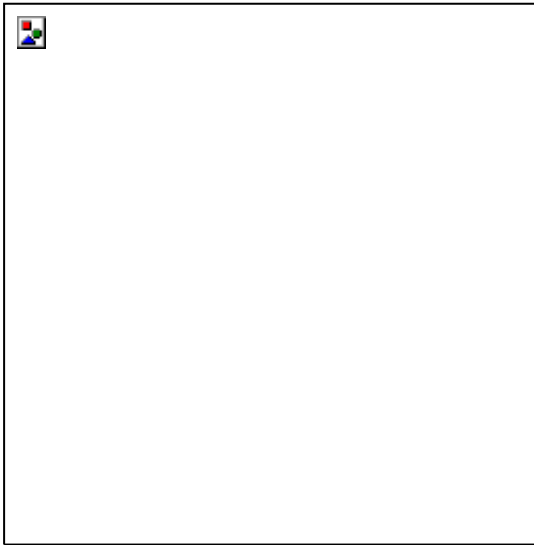
1 mark

A rectangular input box with a small icon in the top-left corner, intended for the student to write the coordinates of points A and B.

1 mark

Q2.

The diagram shows two identical squares.



A is the point (10, 10)

What are the coordinates of **B** and **C**?

A horizontal rectangular input box with a black border. In the top-left corner, there is a small icon consisting of four colored squares (red, green, blue, and yellow) arranged in a 2x2 grid.

1 mark

A horizontal rectangular input box with a black border. In the top-left corner, there is a small icon consisting of four colored squares (red, green, blue, and yellow) arranged in a 2x2 grid.

1 mark

Q3.

ABCD is a rectangle drawn on coordinate axes.

The sides of the rectangle are parallel to the axes.



What are the coordinates of **D** and **E**?

A horizontal rectangular input box with a black border. A small icon is visible in the top-left corner of the box.

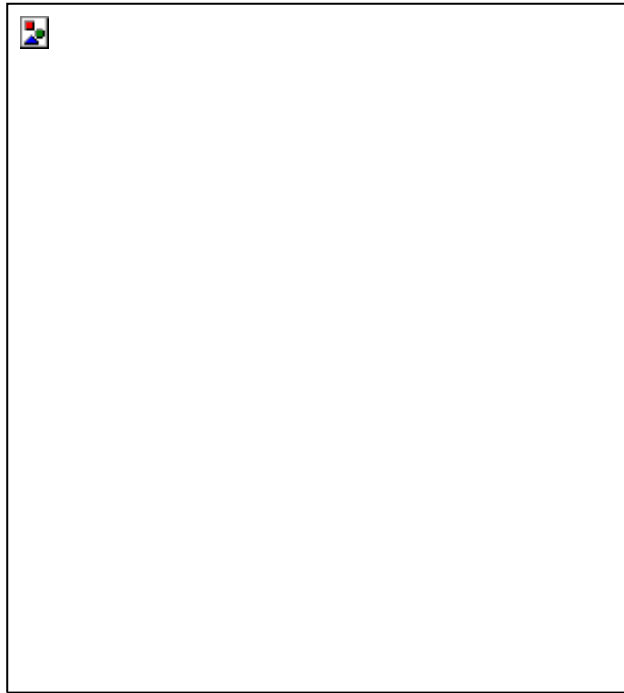
1 mark

A horizontal rectangular input box with a black border. A small icon is visible in the top-left corner of the box.

1 mark

Q4.

A and **B** are joined by a straight line on coordinate axes.



The dots on the line are equally spaced.

What are the coordinates of **C**?



2 marks

Q5.

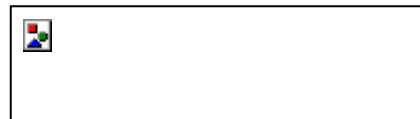
Here is a line on coordinate axes.



Points **O**, **P**, **Q** and **R** are equally spaced.

The coordinates of **P** are (25,12).

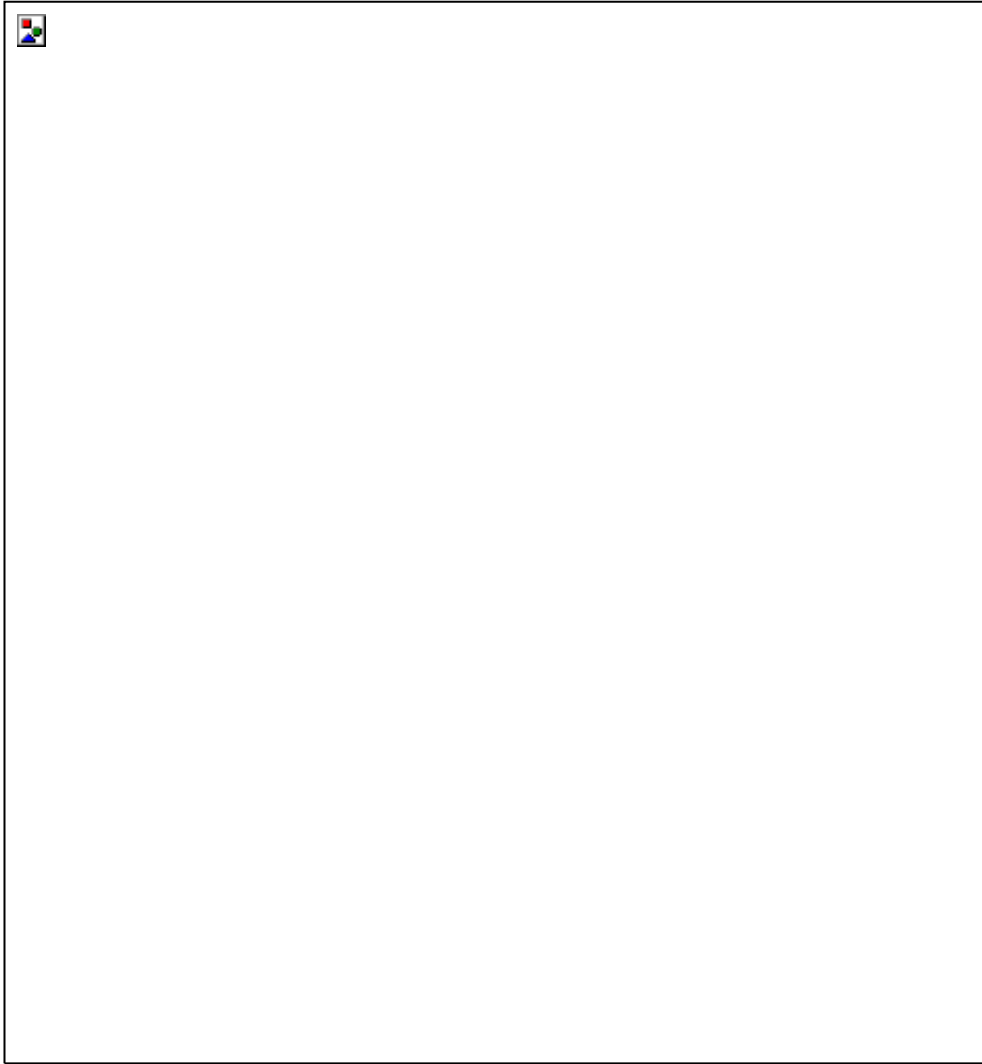
What are the coordinates of **R**?

A small empty rectangular box with a black border, intended for writing the answer. A small icon of a coordinate plane is visible in the top-left corner of the box.

1 mark

Q6.

Here are two triangles drawn on coordinate axes.



Triangle B is a reflection of triangle A in the x -axis.

Two of the new vertices of triangle B are $(10, -10)$ and $(20, -30)$.

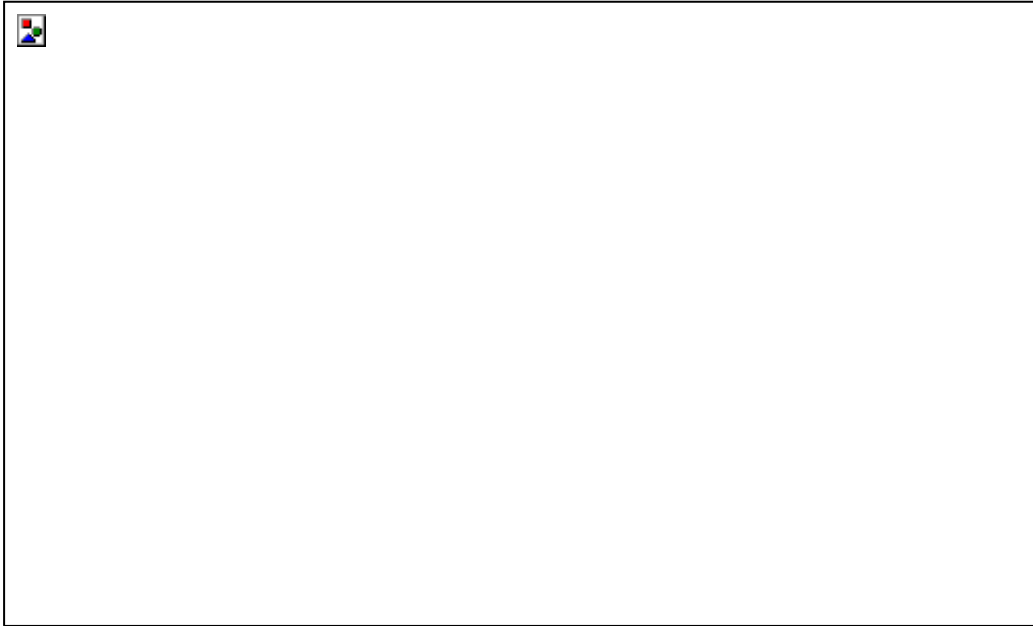
What are the coordinates of the **third** vertex of triangle B?



1 mark

Q7.

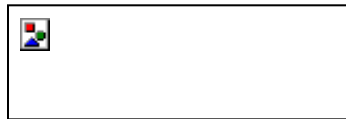
Alfie places three cubes on a coordinate grid.
The base of his shape is a rectangle.



Complete this sentence:

The four **vertices** of the rectangle are

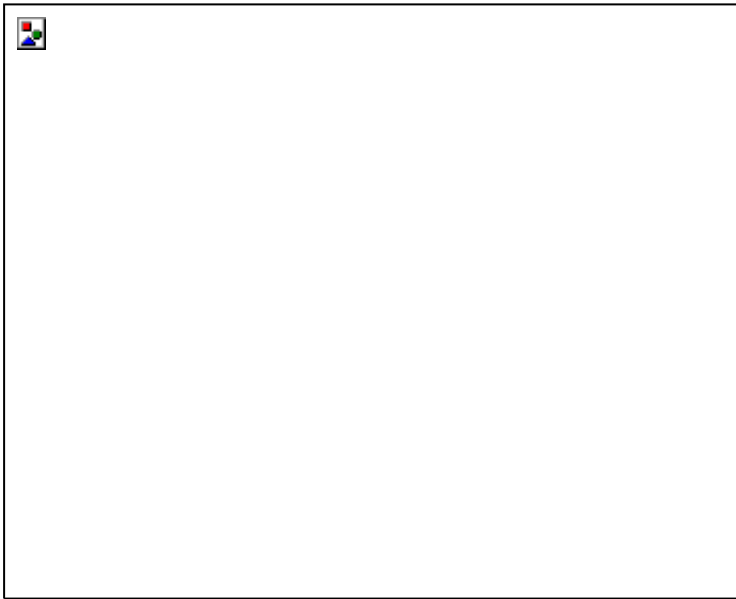
(2, 3), (5, 3), (5, 4) and



1 mark

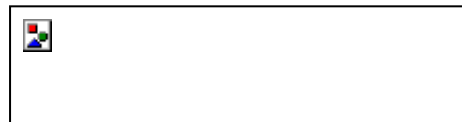
Q8.

Here is a square on coordinate axes.

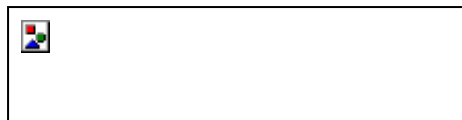


C is the centre of the square.

Find the coordinates of **P** and **Q**.



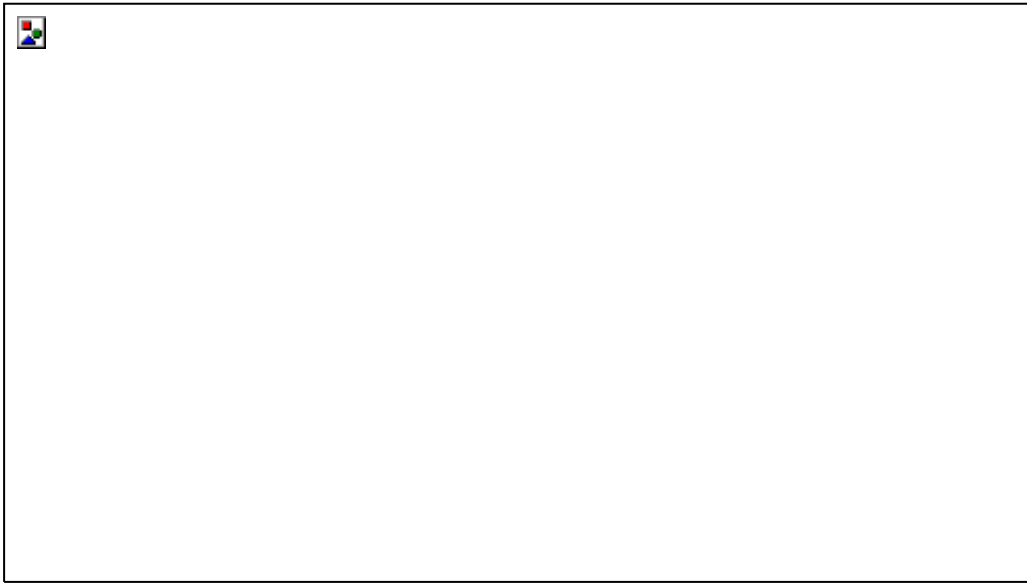
1 mark



1 mark

Q9.

This diagram shows two **identical** rectangles on coordinate axes.



Write the **coordinates** of point **A** and point **B**.

A horizontal rectangular input box with a black border. A small icon is visible in the top-left corner of the box.

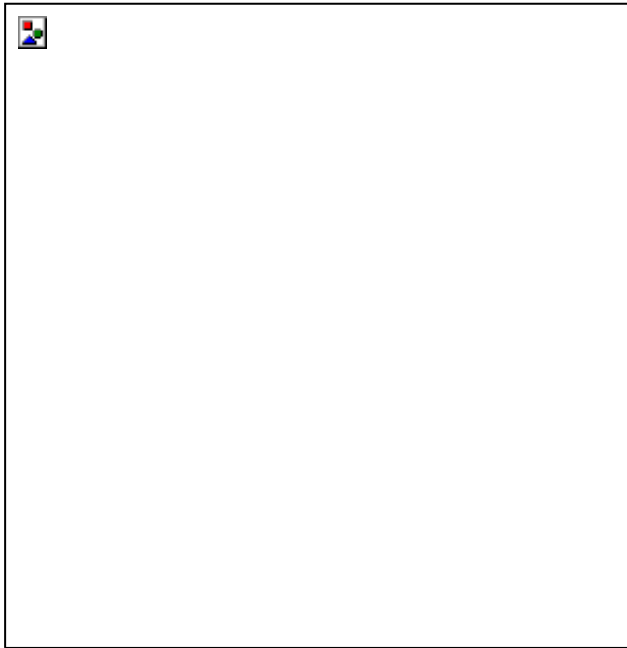
1 mark

A horizontal rectangular input box with a black border. A small icon is visible in the top-left corner of the box.

1 mark

Q10.

Here are two **identical** shaded triangles on coordinate axes.



Write the coordinates of points A and B.

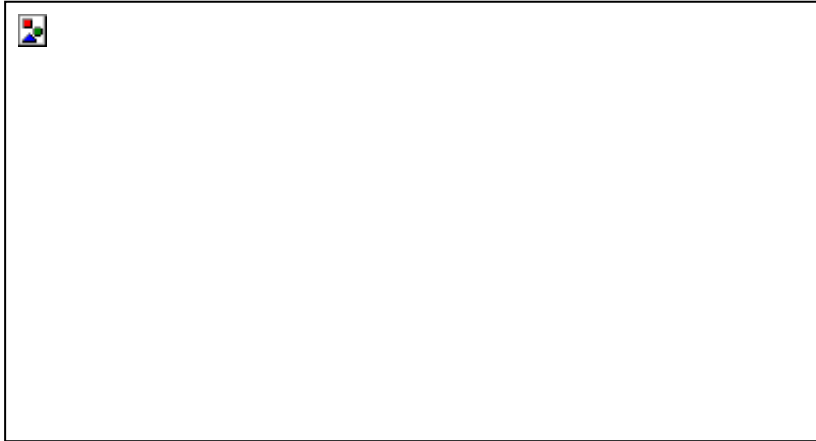
A = 

B = 

2 marks

Q11.

In this diagram **R** is an equal distance from **P** and **Q**.



What are the coordinates of **R**?



1 mark

M1.(a) (19, 25)

! Coordinates

1

(b) (-6, 19)

! Gives values for A and B transposed

Award 1m for part (b) only, ie:

- A is (-6, 19) and B is (19, 25)

1

[2]

M2. (a) (0, 10)

Coordinates must be written in the correct order.

Accept unambiguous answers written on the diagram.

1

(b) (10, 20)

*If the answer for 15a is (10, 0) **AND** the answer to 15b is (20, 10), award **ONE** mark only, in the 15b box.*

1

[2]

M3. (a) (-10, -4)

Coordinates must be written in the correct order.

1

(b) (0, 8)

Accept unambiguous answers written on the diagram.

*Award **ONE** mark if the answer to (a) is (0, 8)*

***AND** the answer to b is (-10, -4).*

1

[2]

M4. (a) 13 for the x coordinate

Accept unambiguous answers written on the diagram.

U1

(b) 15 for the y coordinate

Accept unambiguous answers written on the diagram.

1

*If the answer to (a) is 15 **AND** the answer to (b) is 13, then award **ONE** mark for (b).*

[2]

M5. (75, 36)

Accept unambiguous answers written on the diagram.

[1]

M6.
(-10, -40)

[1]

M7.(2, 4)

[1]

M8.(a) P is (-12, -30)

! Coordinates

Accept unambiguous answers written on the diagram

1

(b) Q is (38, -30)

! Answers for P and Q transposed

Award 1 mark for Q only, ie:

• *P is (38, -30)*

Q is (-12, -30)

! Answer for Q correctly follows through from an incorrect answer for P

Award 1m for Q for follow-through from P as

('their x' + 50, 'their y')

1

[2]

M9.(a) A is (12, 6)

1

(b) B is (19, 3)

1

Coordinates must be given in the correct order.

*If the answer to (a) is (19, 3) **AND** the answer to (b) is (12, 6) then award **ONE** mark for (b)*

Accept unambiguous answers written on the diagram.

[2]

M10.(a) (12, 0)

Accept unambiguous answers written on the diagram.

1

(b) (9, -8)

*If the answer to (a) is (9, -8) **AND** the answer to (b) is (12, 0) then award **ONE** mark for (b).*

1

[2]

M11.(50, 15)

[1]