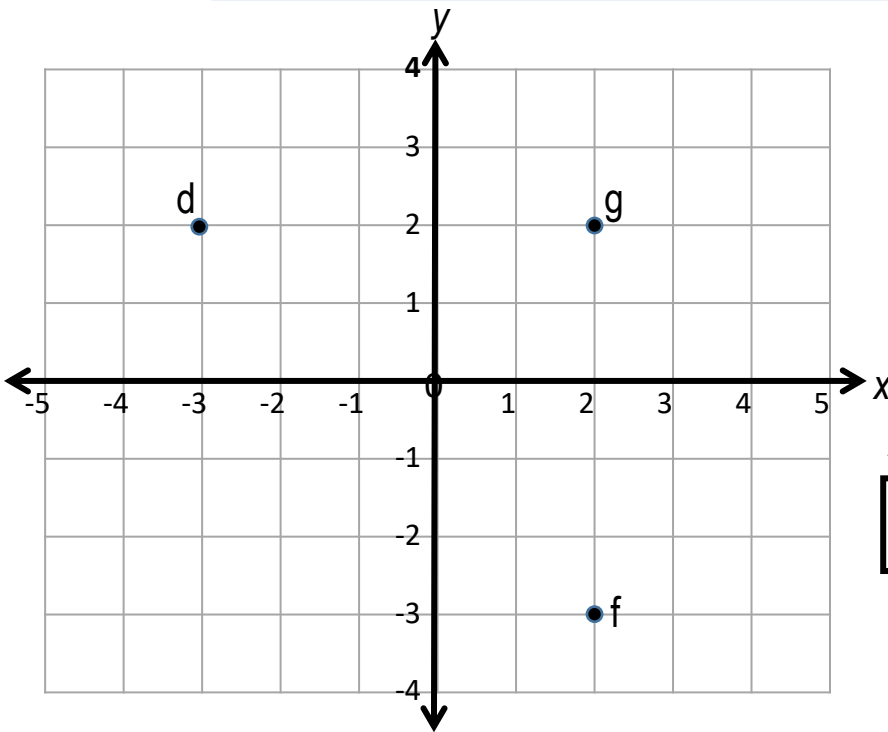


1

What are the coordinates of **point d**?



Answer:

$d = ( \quad , \quad )$

1 mark

Jayden adds a fourth point to the diagram and labels it **e**.

When Jayden joins the four points **d**, **e**, **f** and **g** together in that order, he realises they form a rectangle.

What are the coordinates of **point e**?

Answer:

$e = ( \quad , \quad )$

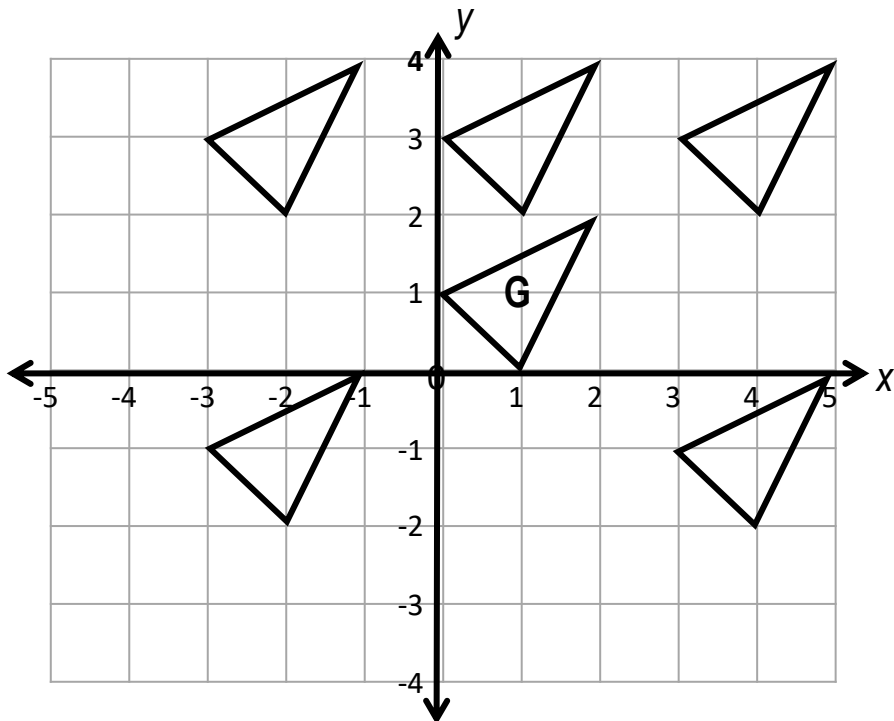
1 mark

2

Gracie chooses one of the triangles below.

She realises that if she translated it 3 units to the left and two units up, it would end up in the position marked with a **G**.

Put a tick in Gracie's *original* triangle.



1 mark

Archie thinks Gracie's triangle is isosceles. Is he correct?  
Explain your answer.

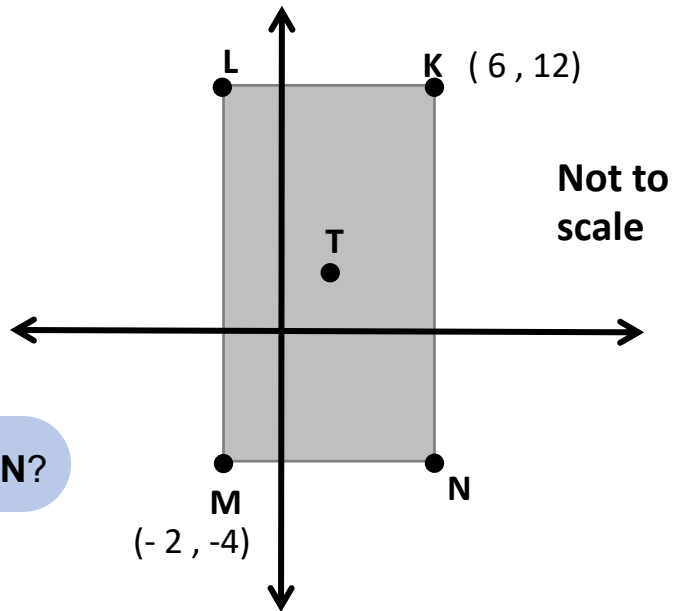
1 mark

3

Finely joins the points **K,L,M** and **N** to form a rectangle.

Point K has coordinates (6,12)

Point M has coordinates (-2,-4)



What are the coordinates of point **N**?

Answer:

1 mark

Thalia draws the point **T** in the exact centre of the rectangle.

What are the coordinates of point **T**?

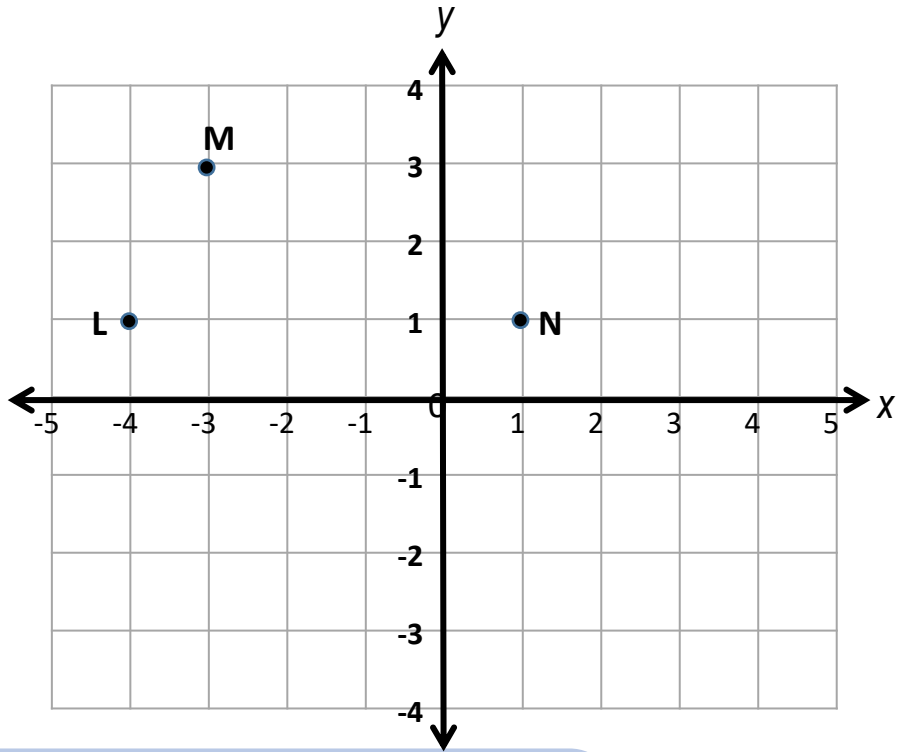
Answer:

1 mark

4

Bailey wants to draw a kite on a coordinate grid, with vertices called **L**, **M**, **N** and **O**.

So far he has chosen coordinates for **L**, **M** and **N**.



What coordinates should Bailey choose for the final point, **O**?

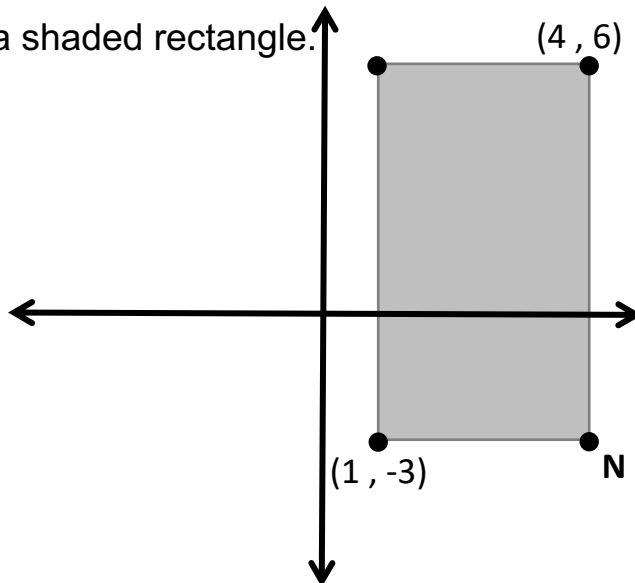
Answer:

$O = ( \quad , \quad )$

1 mark

5

The diagram shows a shaded rectangle.



What are the coordinates of point **N**?

Answer:

$N = ( \quad , \quad )$

1 mark