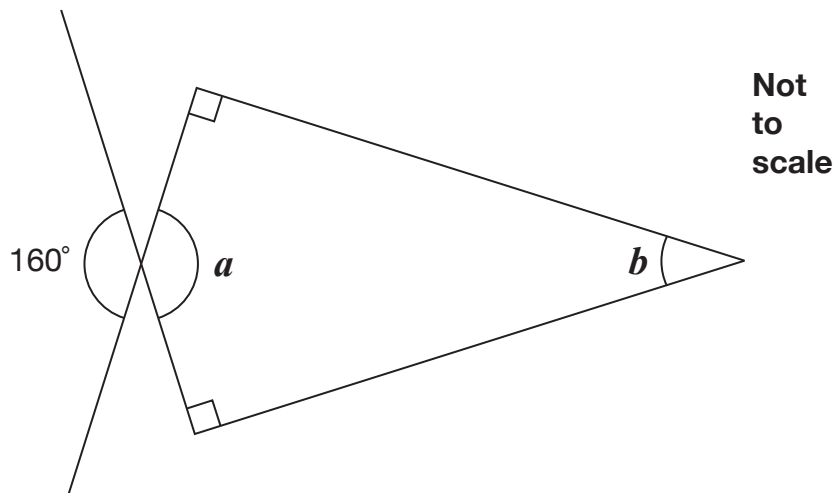


17

Calculate the size of angles  $a$  and  $b$  in this diagram. $a =$ 

---

1 mark $b =$ 

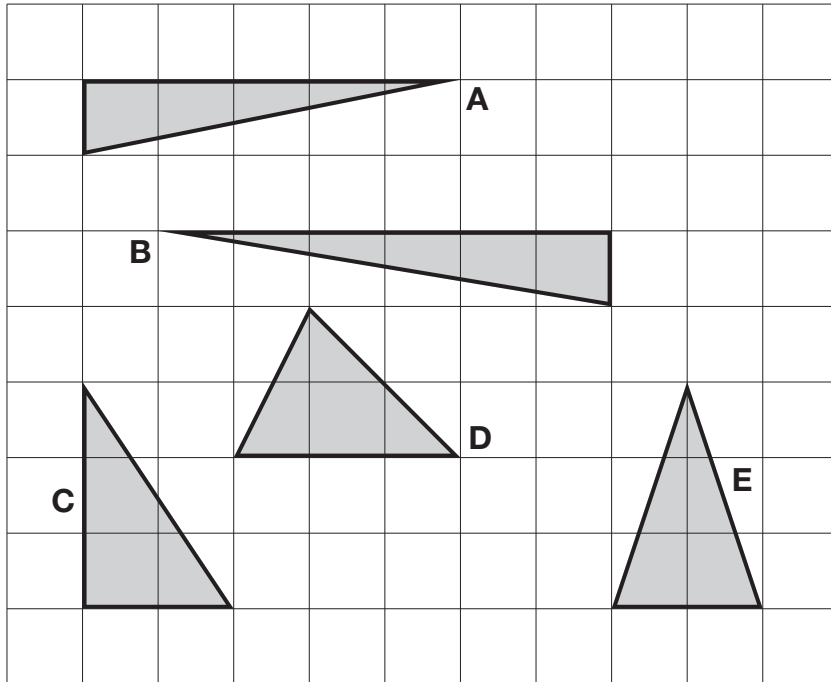
---

1 mark

E 0 0 0 7 0 A 0 1 9 2 4

17

Here are five triangles on a square grid.



Four of the triangles have the same area.

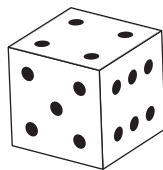
Which triangle has a **different** area?

\_\_\_\_\_ 1 mark

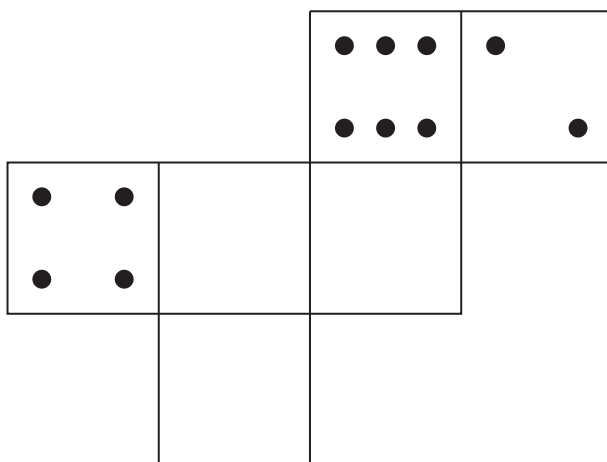


17

On a dice, the sum of the dots on opposite faces is always 7



Draw dots on the three empty faces of the net so that it could fold up to make a dice.



1 mark



17

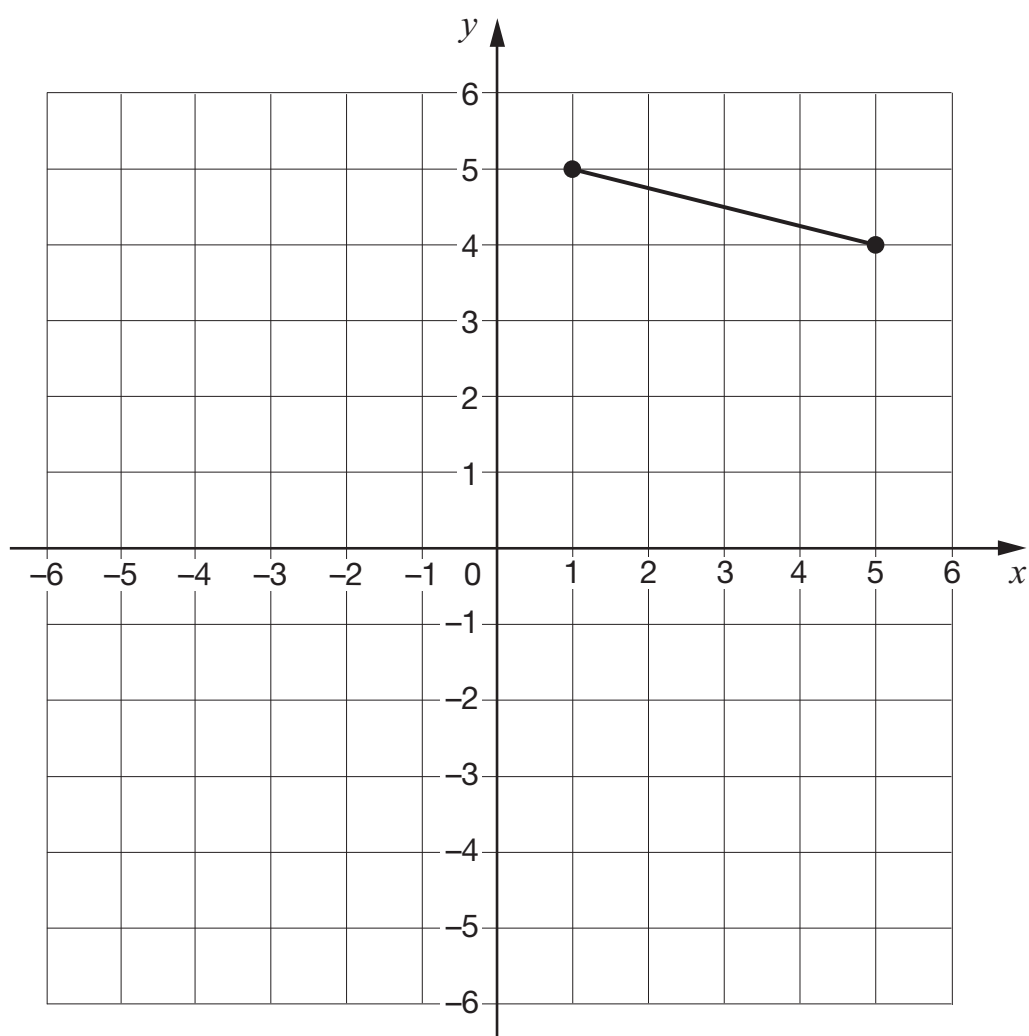
The vertices of a quadrilateral have these coordinates.

$(1, 5)$        $(5, 4)$        $(1, -3)$        $(-3, 4)$

One side of the quadrilateral has been drawn on the grid.

Complete the quadrilateral.

Use a ruler.

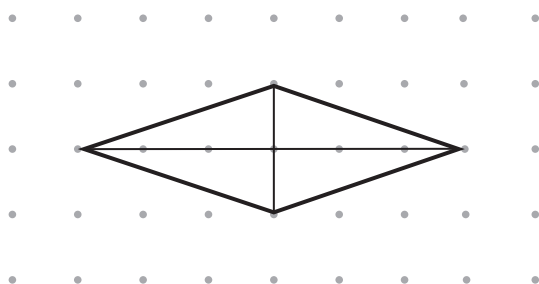


1 mark

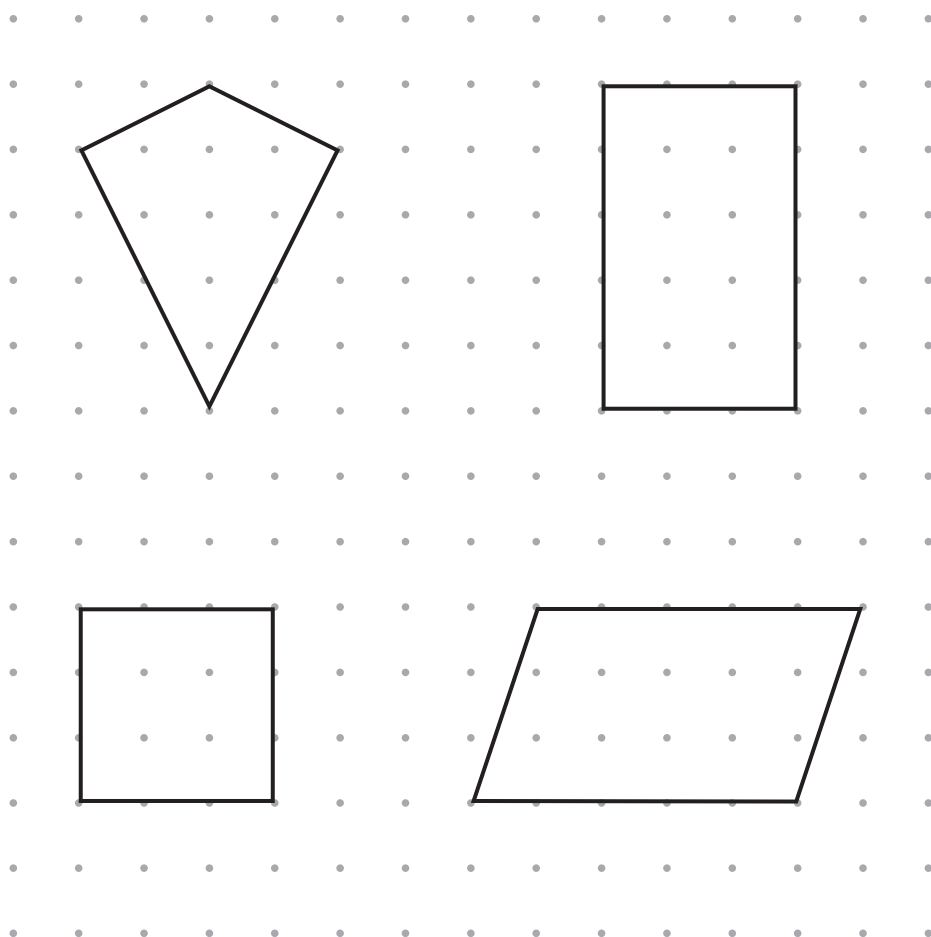


18

The diagonals of this quadrilateral cross at right angles.



Tick **all** the quadrilaterals that have diagonals which cross at right angles.

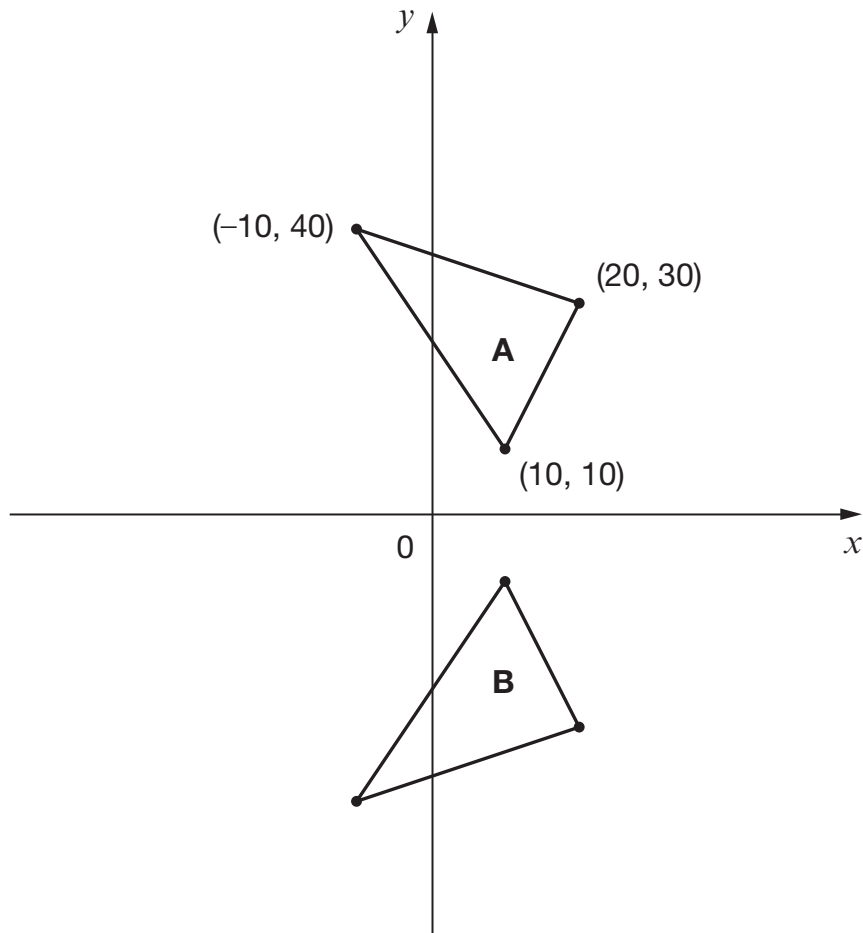


2 marks



20

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  $(20, -30)$ .

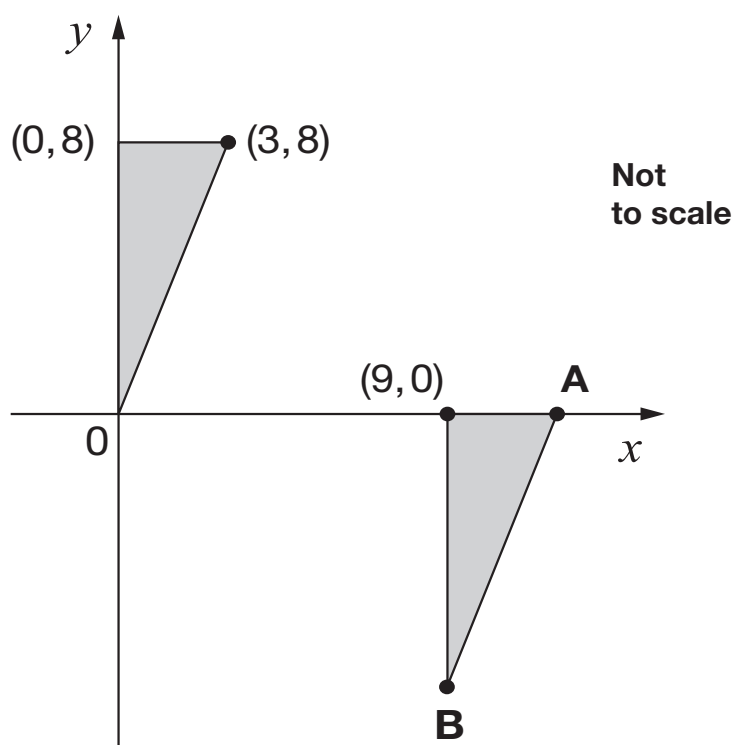
What are the coordinates of the **third** vertex of triangle B?

(      ,      )

1 mark



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



Write the coordinates of points A and B.

A = (      ,      )

B = (      ,      )

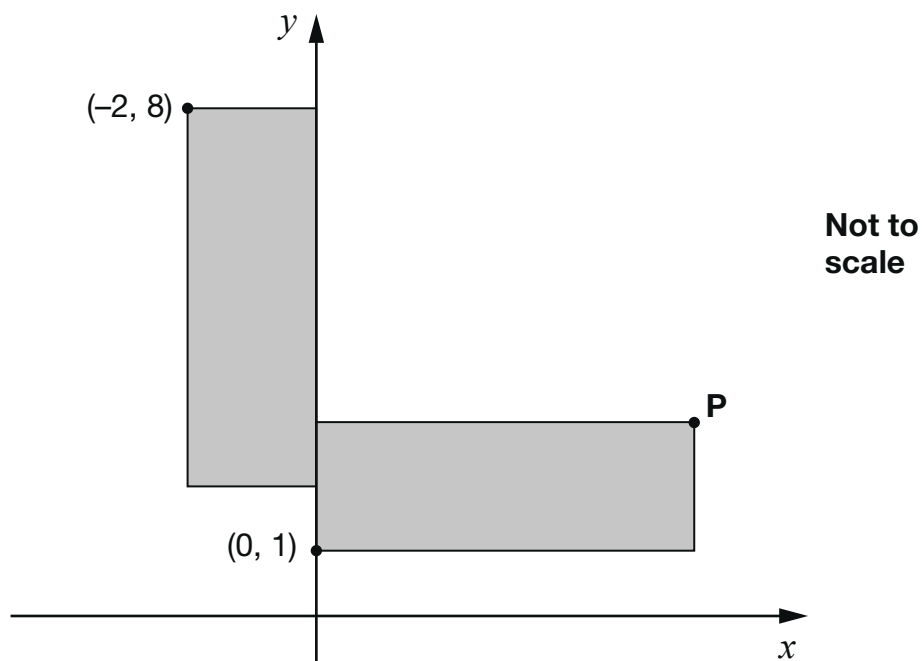
2 marks



21

These two rectangles are identical.

The length of each rectangle is **three times** its width.



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

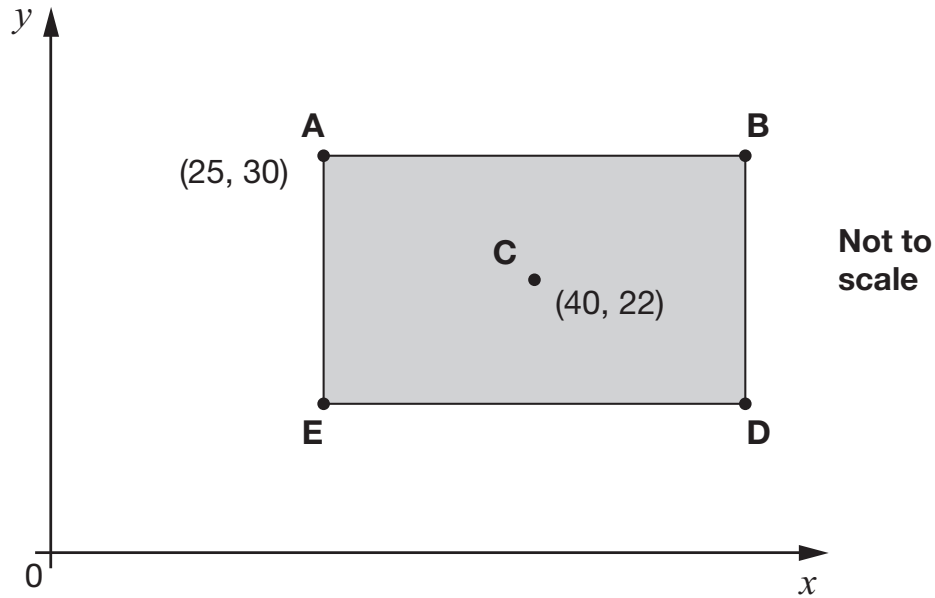
1 mark





**21****ABDE** is a rectangle on coordinate axes.

The sides of the rectangle are parallel to the axes.

Point **C** is the centre of the rectangle.What are the coordinates of **B** and **D**?**B** is

1 mark

**D** is

1 mark

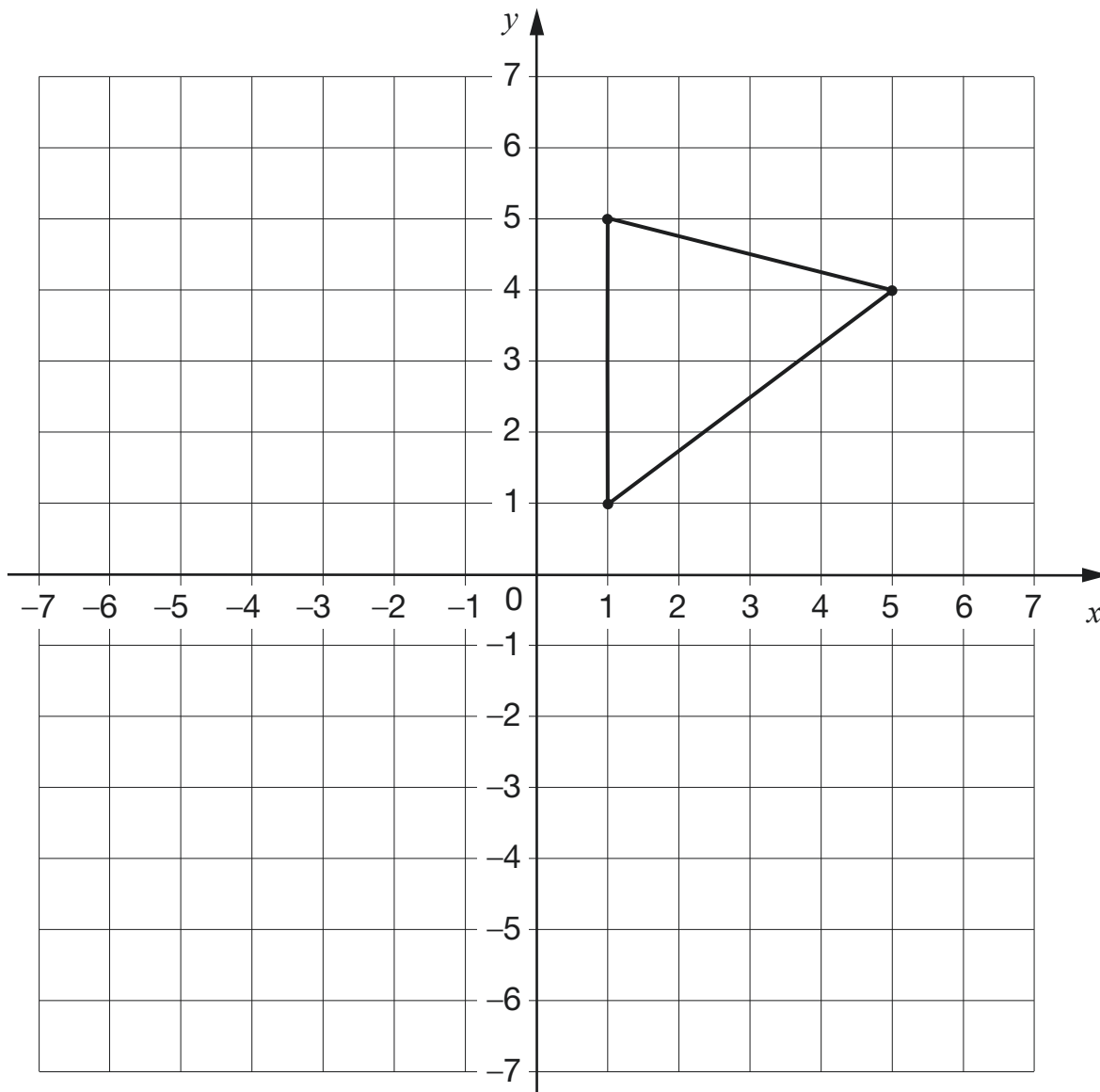


25

The triangle is to be transformed on the grid as follows:

- First translate the shape 7 units down.
- Then reflect the **resulting** triangle in the  $y$ -axis.

Draw the new triangle on the grid after **each** transformation.



Use a ruler.

2 marks

