10/02/21 – Spicy
End of transformations assessment.

Draw the reflection of the shaded shape in the mirror line.

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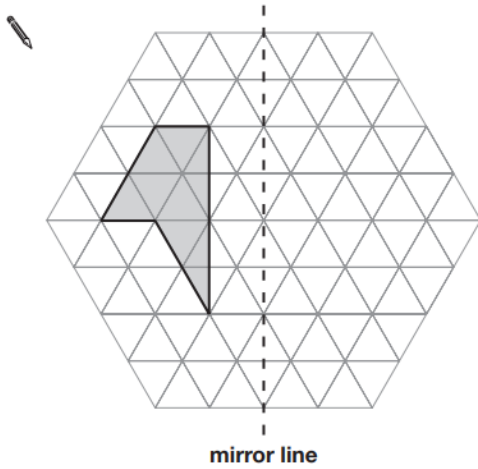
Here are two **identical** shaded triangles on coordinate axes.

*y*

(0,8)    (3,8)

Not
to scale

(9,0)    **A**

0    *x*

**B**

Write the coordinates of points A and B.
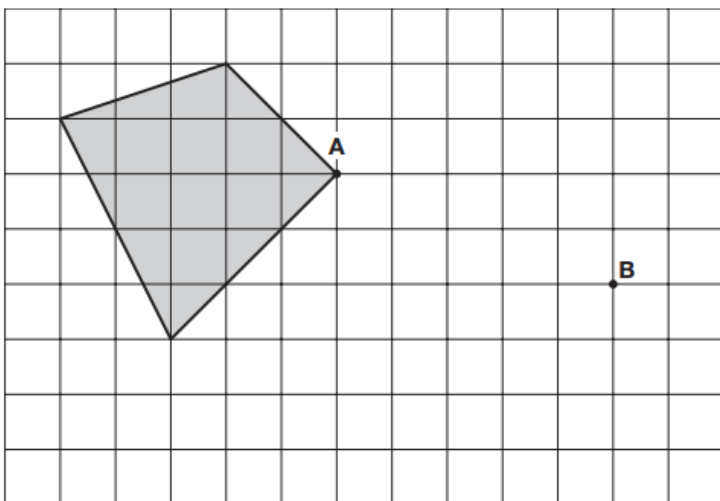
A = (    ,    )

B = (    ,    )
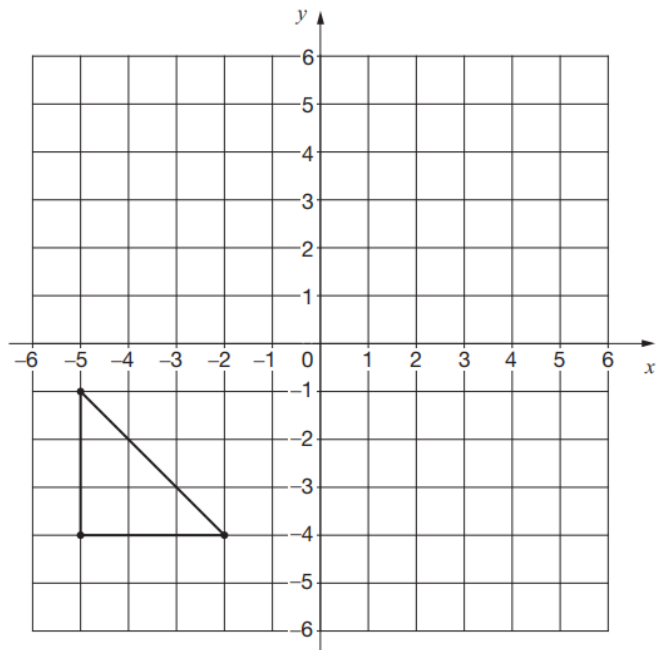
Here is a shape on a square grid.

The shape is translated so that point **A** moves to point **B**.

Draw the shape in its new position.

Use a ruler.

**A**

**B**

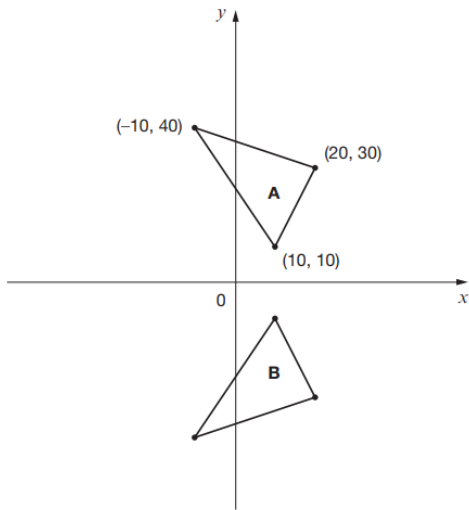Here is a triangle drawn on a coordinate grid.

*y*

The triangle is translated **7 right** and **5 up**.

Draw the triangle in its new position.

Here are two triangles drawn on coordinate axes.
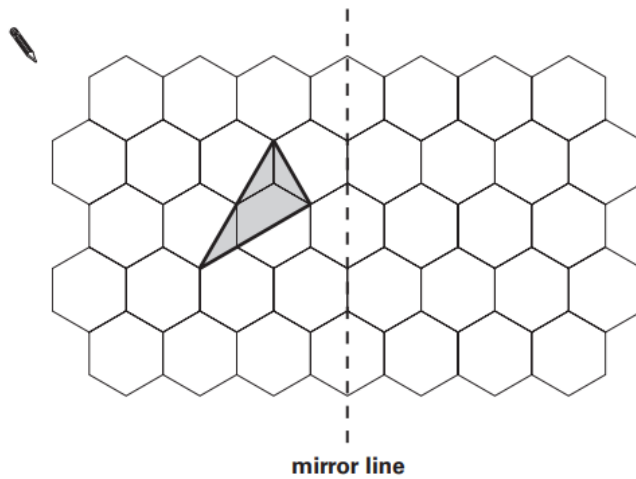
(−10, 40)

(20, 30)

A

(10, 10)

0

B

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?

( , )

The shaded triangle is a reflection of the white triangle in the mirror line.

mirror line

(5,9)

A

(1,3)    (5,3)

(11,3)    B

0    C

x
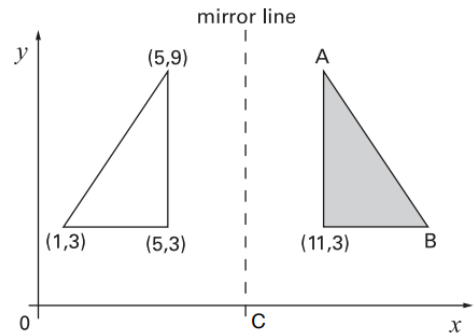
Write the coordinates of points A and B.

A = ( , )

B = ( , )

Point C is where the mirror line crosses the x-axis.

Write the coordinates of point C.

C = ( , )
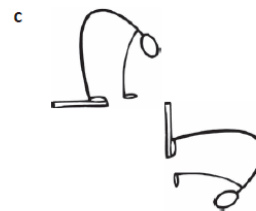
This grid is made of hexagons.

Draw the reflection of the shaded shape on the grid.

mirror line

Look at these figures. Decide if each figure has been reflected, translated or rotated:

a

b

c