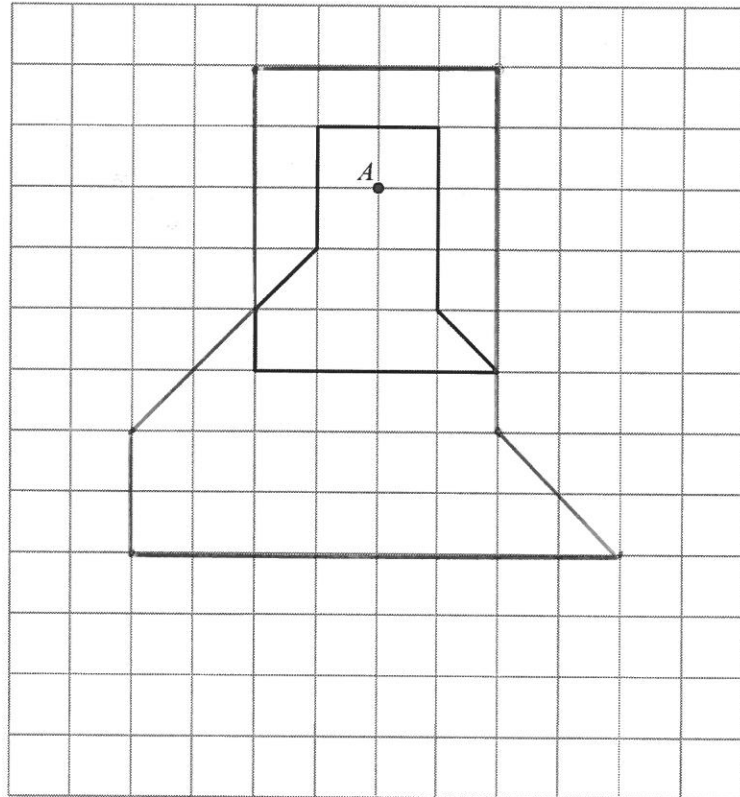


# **Walking Talking - Transformations**

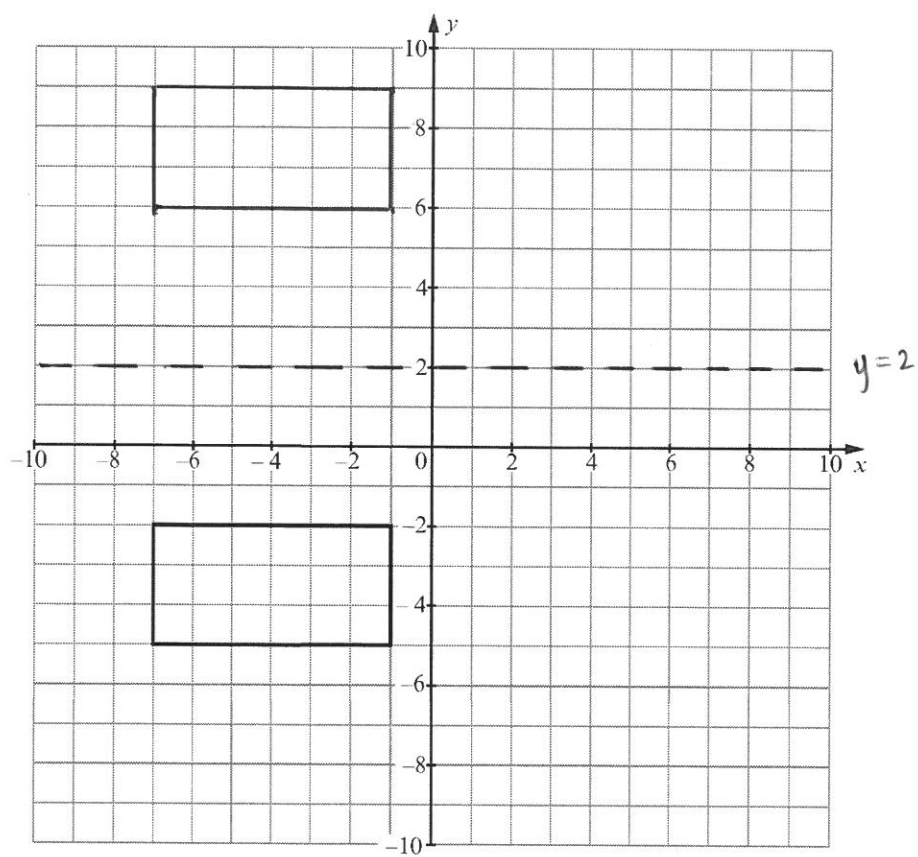
1.

- (a) Enlarge the shape shown on the grid by a scale factor of 2 using  $A$  as the centre for the enlargement.



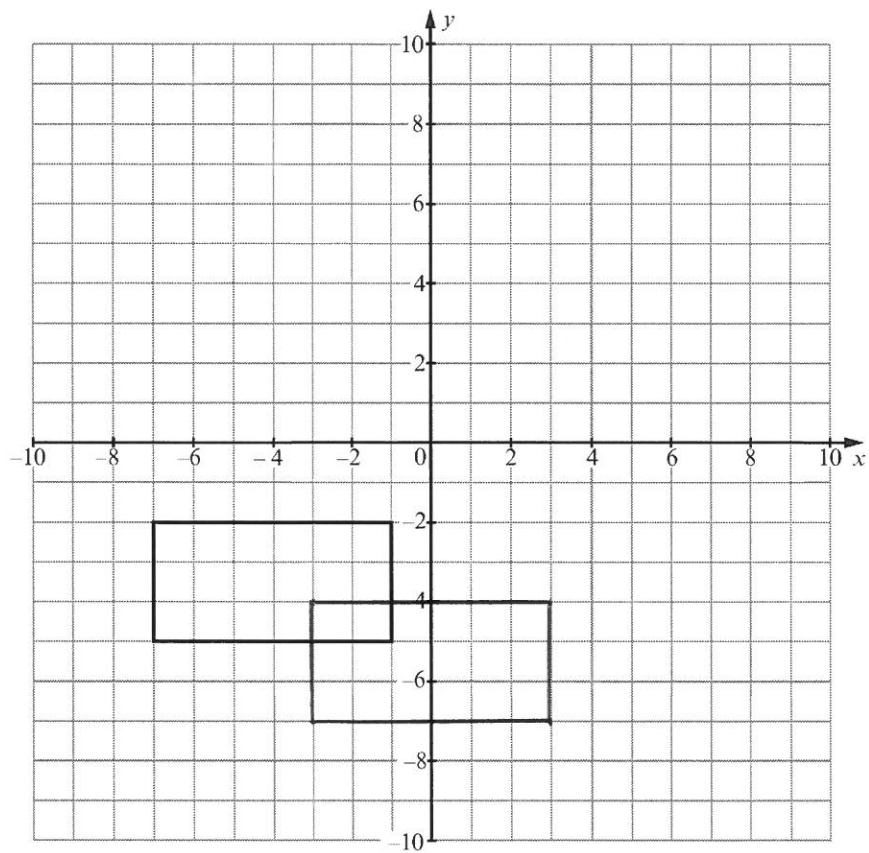
[3]

(b) Reflect the rectangle in the line  $y = 2$ .



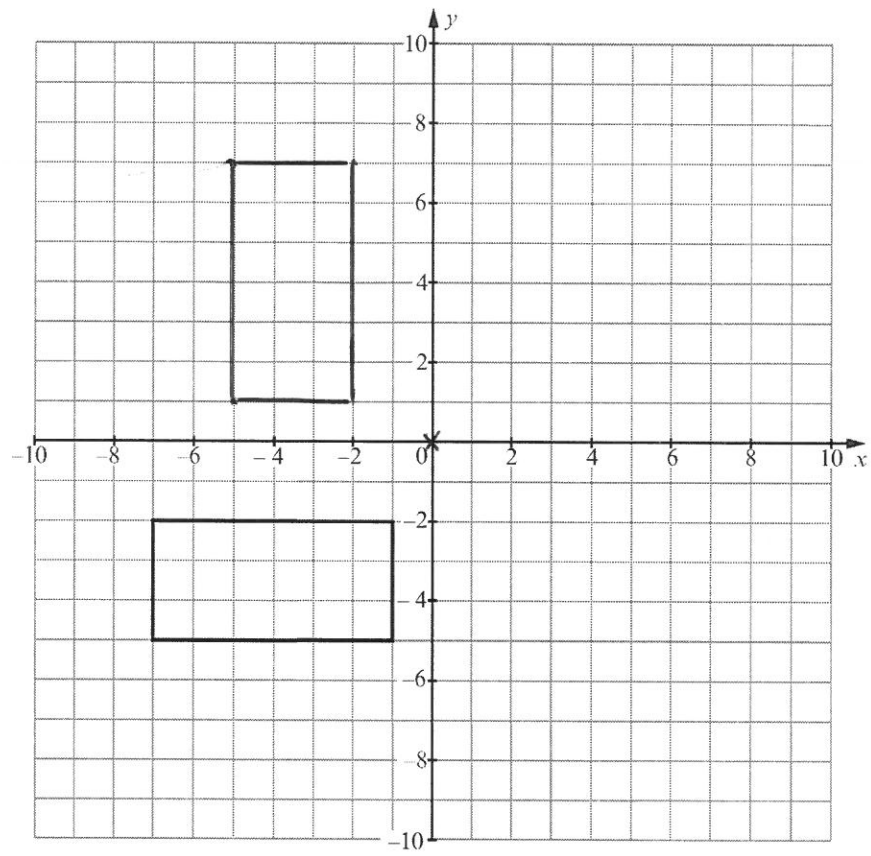
[2]

(c) Translate the rectangle shown below by  $\begin{pmatrix} 4 \\ -2 \end{pmatrix}$ .



[1]

- (d) Rotate the rectangle shown on the grid below through  $90^\circ$  clockwise about the origin.

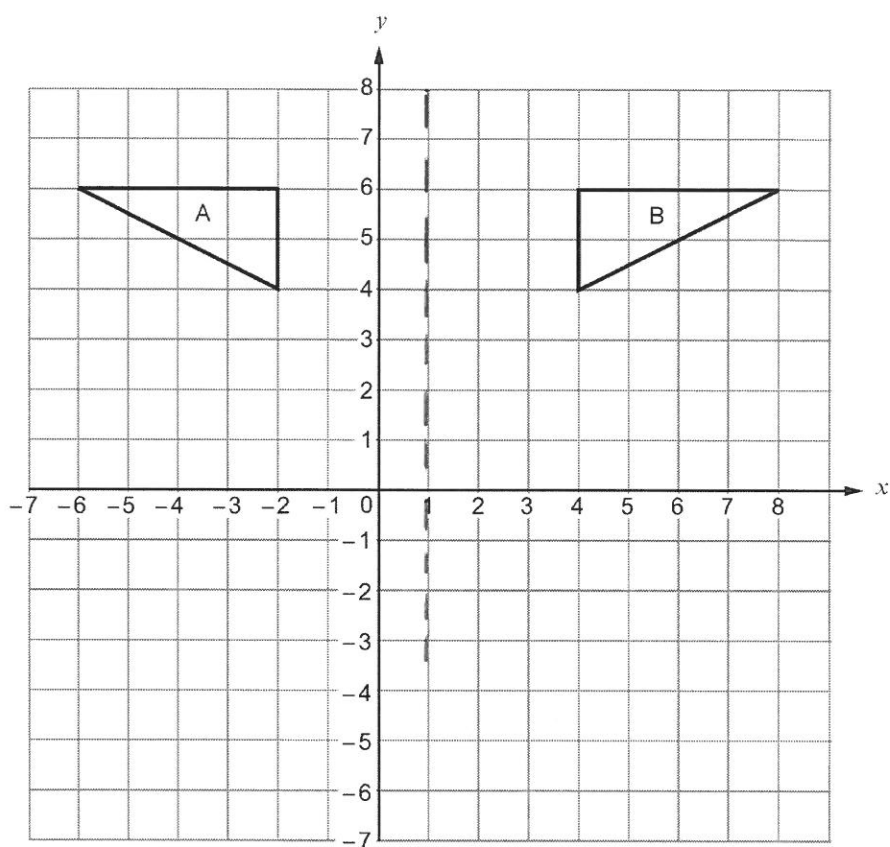


[2]

2.

Describe **fully** the transformation which maps triangle A onto triangle B.

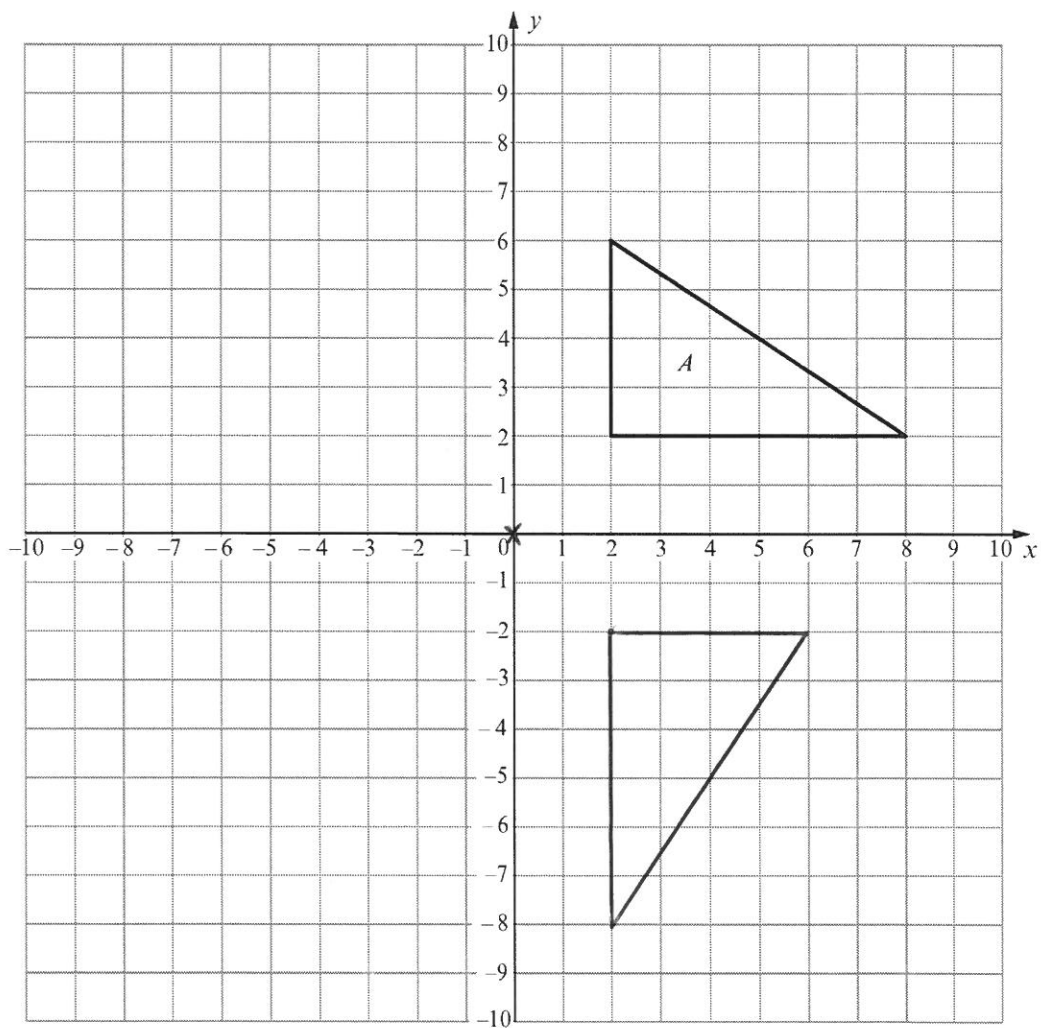
[2]



reflection in the line  $x=1$

3.

Reflect triangle  $A$  in the  $x$ -axis and label your answer  $B$ .  
Then rotate your triangle  $B$  by  $90^\circ$  clockwise about the origin.  
Label your final answer  $C$ .

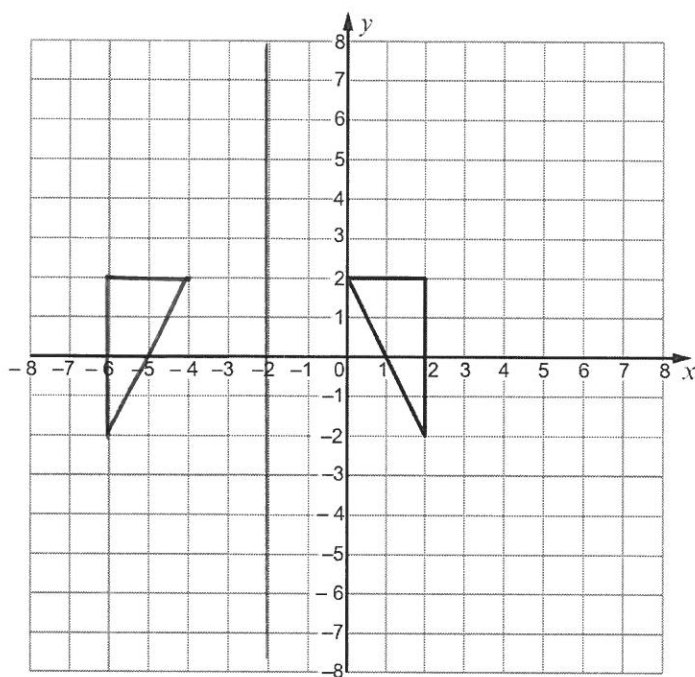


[4]

4.

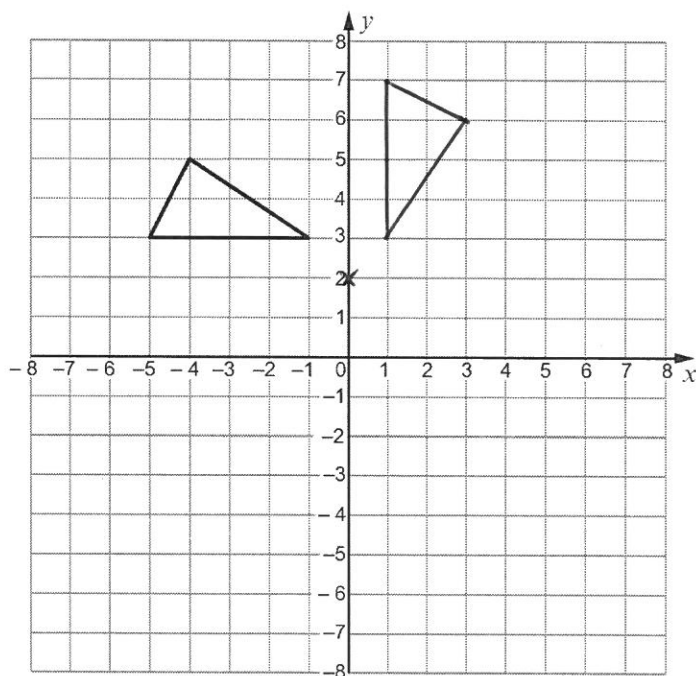
(a) Reflect the triangle in the line  $x = -2$ .

[2]



(b) Rotate the triangle clockwise through  $90^\circ$  about the point with coordinates (0, 2).

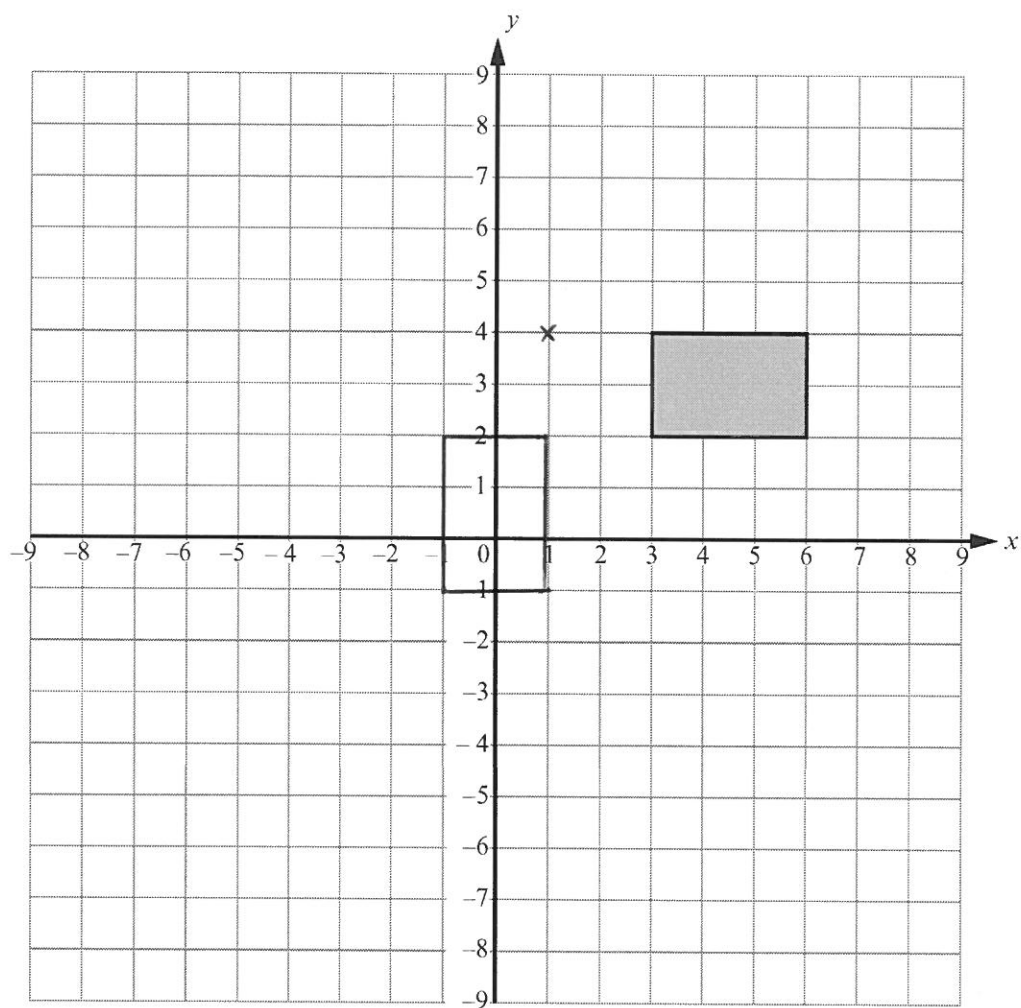
[2]





5.

Rotate the rectangle through  $90^\circ$  clockwise about the point  $(1, 4)$ .

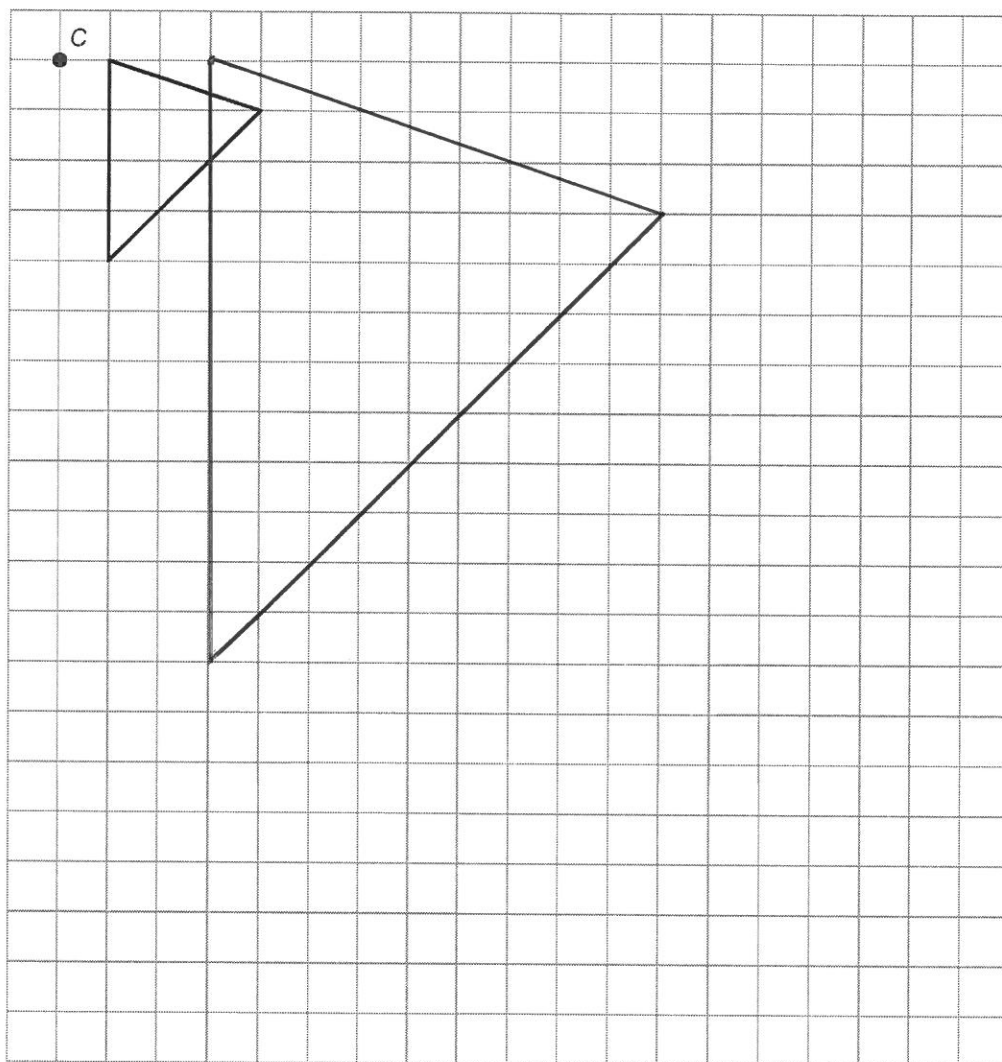


[2]

6.

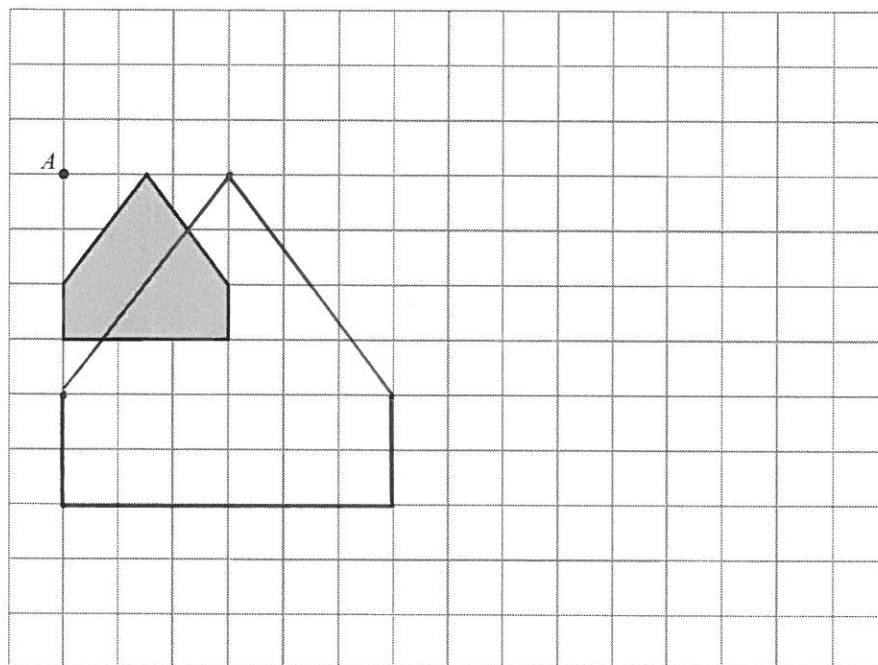
Enlarge the given triangle, using scale factor 3 and centre C.

[2]



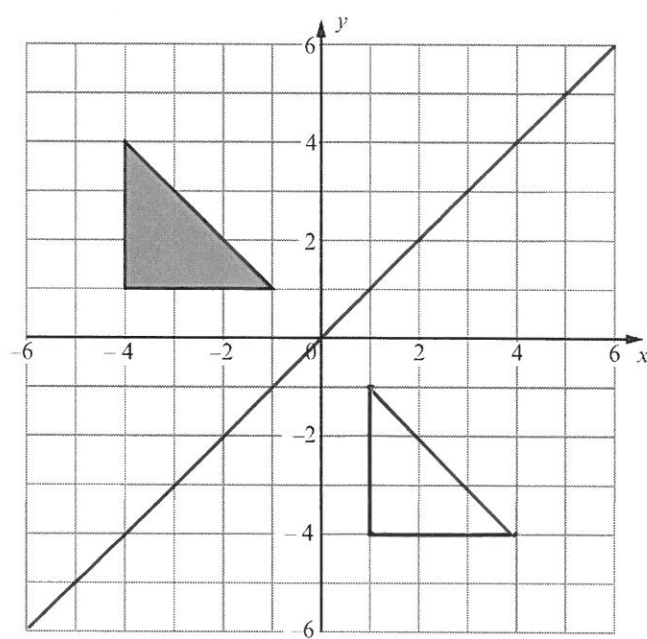
7.

- (a) Enlarge the shape shown on the grid by a scale factor of 2 using  $A$  as the centre of the enlargement.



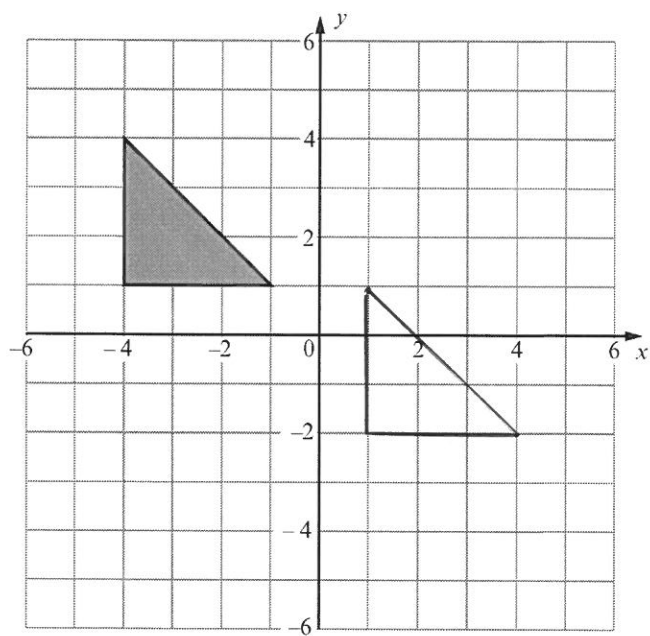
[3]

- (b) Reflect the triangle in the line  $y = x$ .



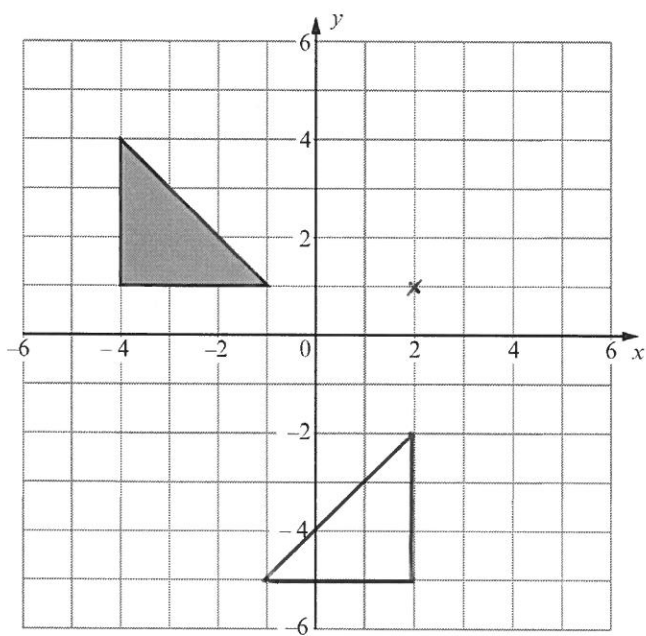
[2]

- (c) Translate the triangle shown below by  $\begin{pmatrix} 5 \\ -3 \end{pmatrix}$ .



[1]

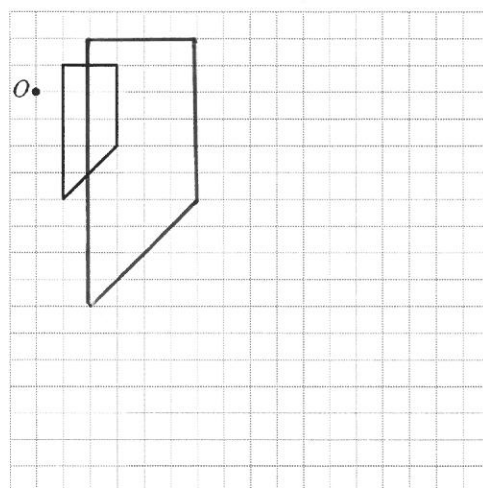
- (d) Rotate the triangle shown on the grid below through  $90^\circ$  anticlockwise about  $(2, 1)$ .



[2]

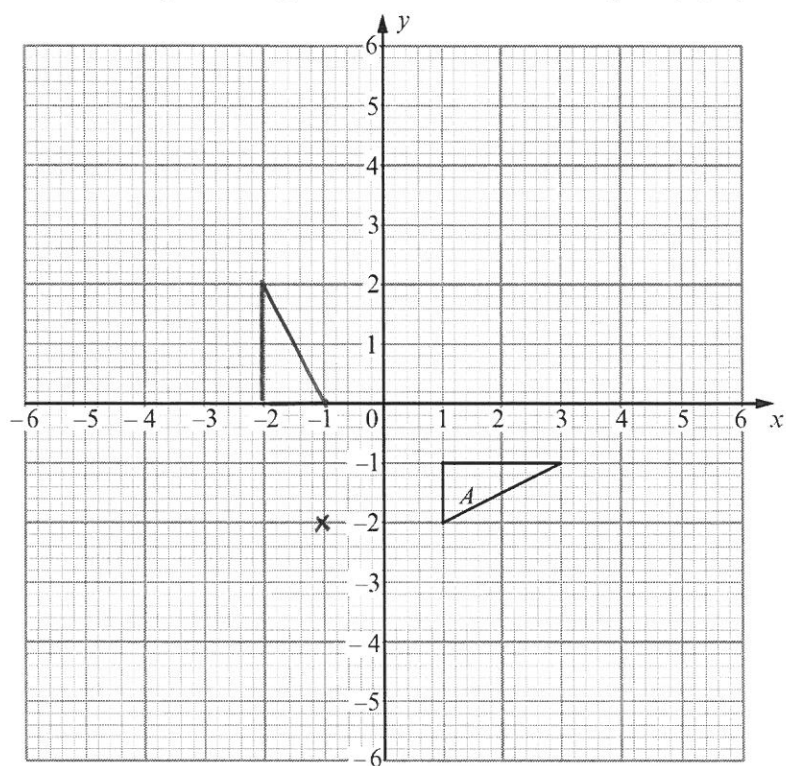
8.

- (a) On the grid below, draw an enlargement of the trapezium using a scale factor of 2 and centre  $O$ .



[3]

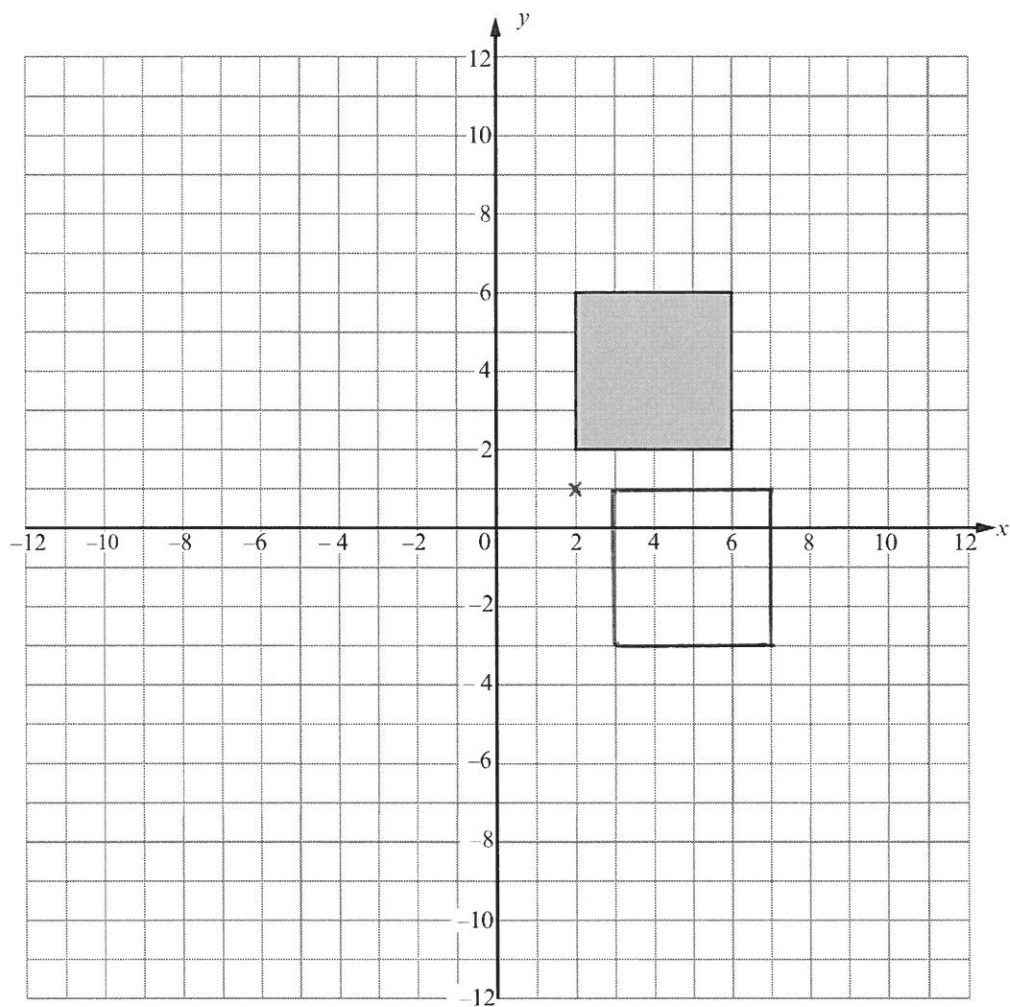
- (b) Rotate the triangle  $A$  through  $90^\circ$  anticlockwise about the point  $(-1, -2)$ .



[2]

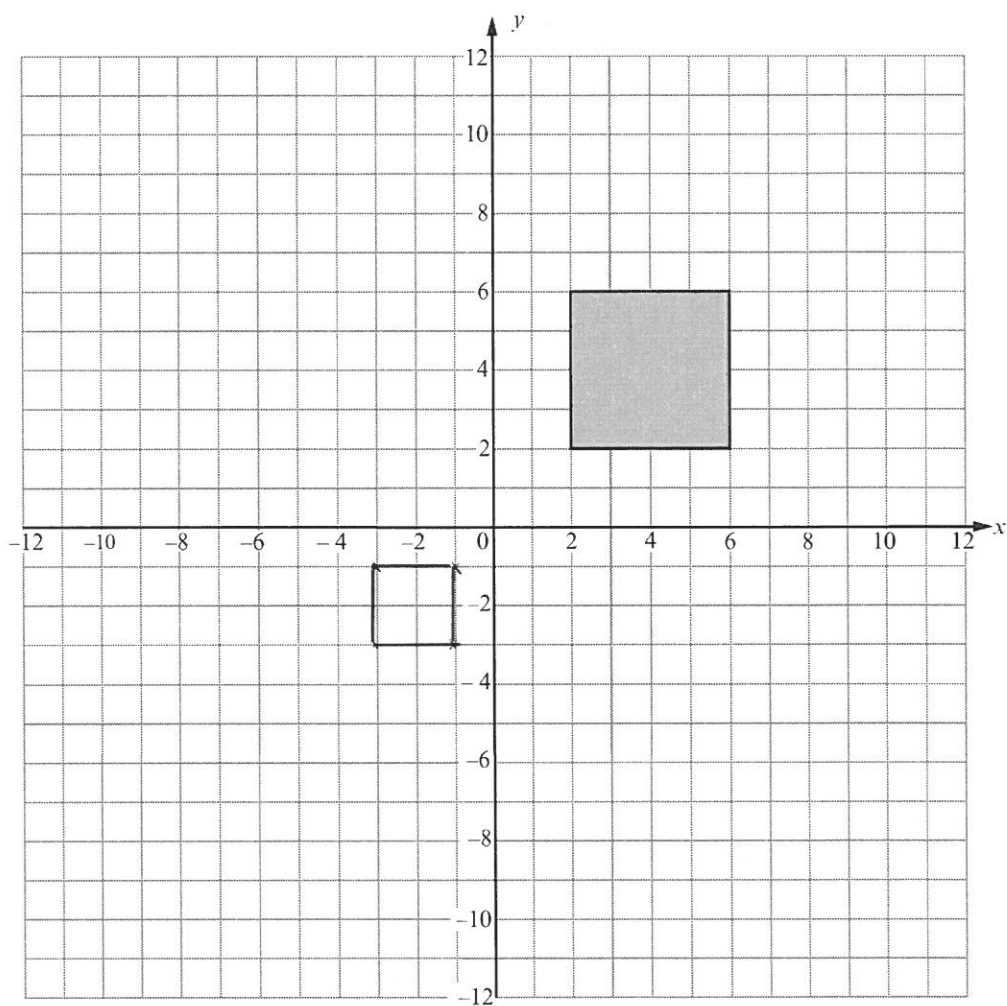
9.

(a) Rotate the square through  $90^\circ$  clockwise about the point (2, 1).



[2]

- (b) Enlarge the square shown on the grid below by a scale factor of  $-\frac{1}{2}$  using  $(0, 0)$  as the centre of enlargement.



[2]