



# EXAM PAPERS PRACTICE

GCSE OCR Math J560

Transformations

Question Paper

*"We will help you to  
achieve A Star "*

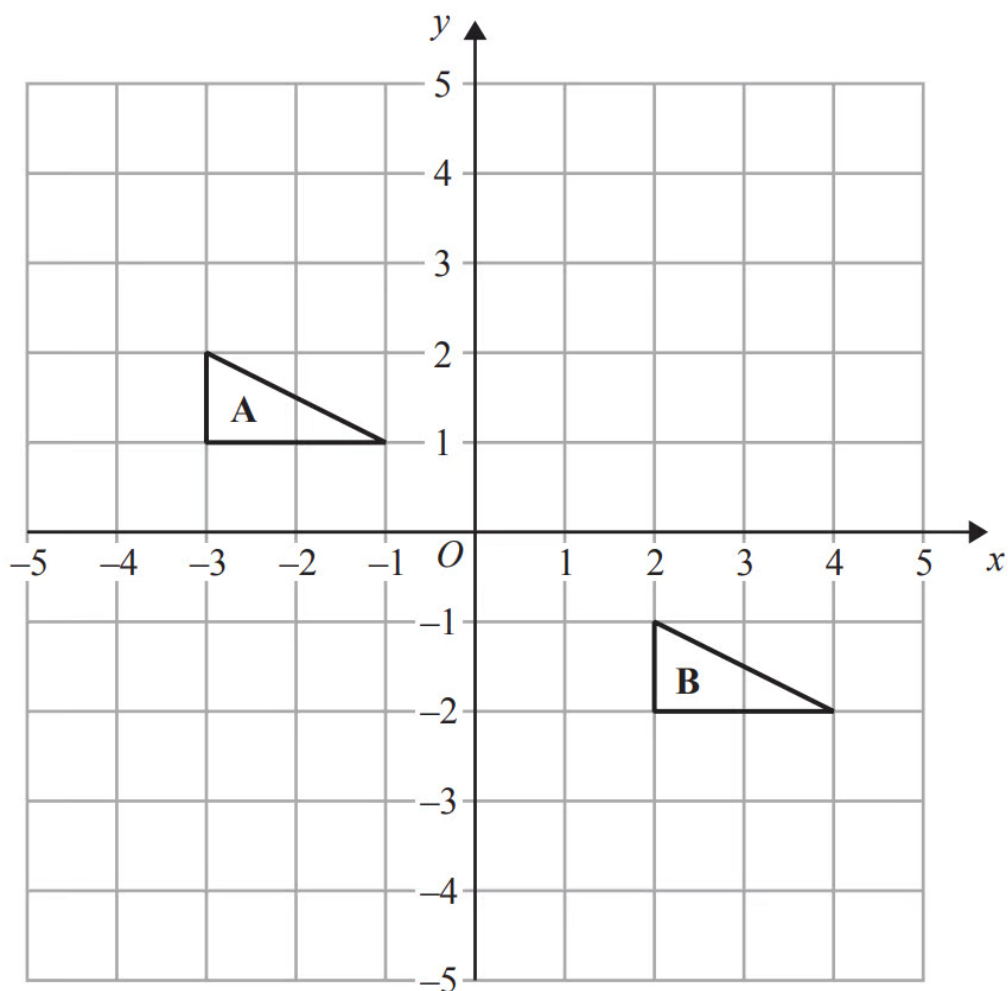


**Question 1**

- (b) Translate trapezium **T** by the vector  $\begin{pmatrix} -1 \\ -3 \end{pmatrix}$   
Label the new trapezium **B**.

[1 mark]

**Question 2**

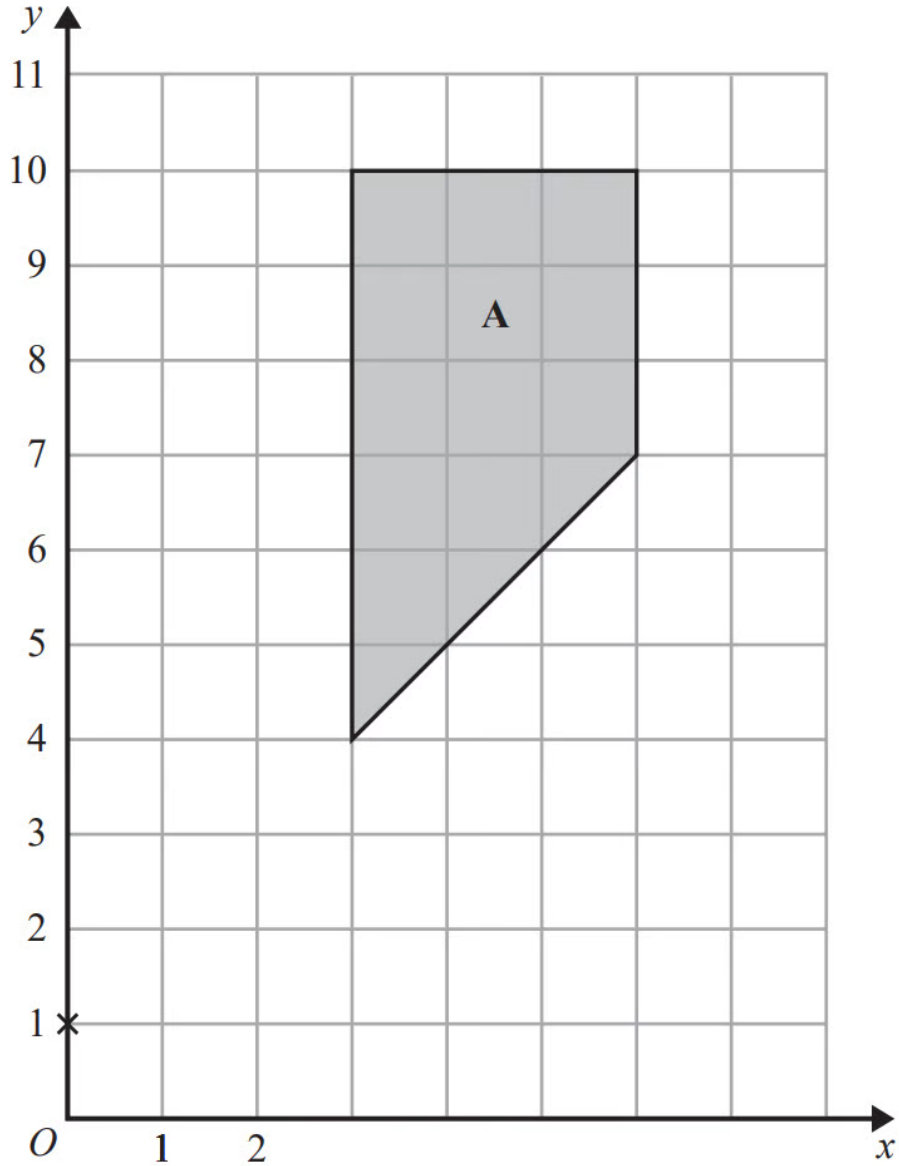


Describe the single transformation that maps triangle **A** onto triangle **B**.

[2 marks]



**Question 3**



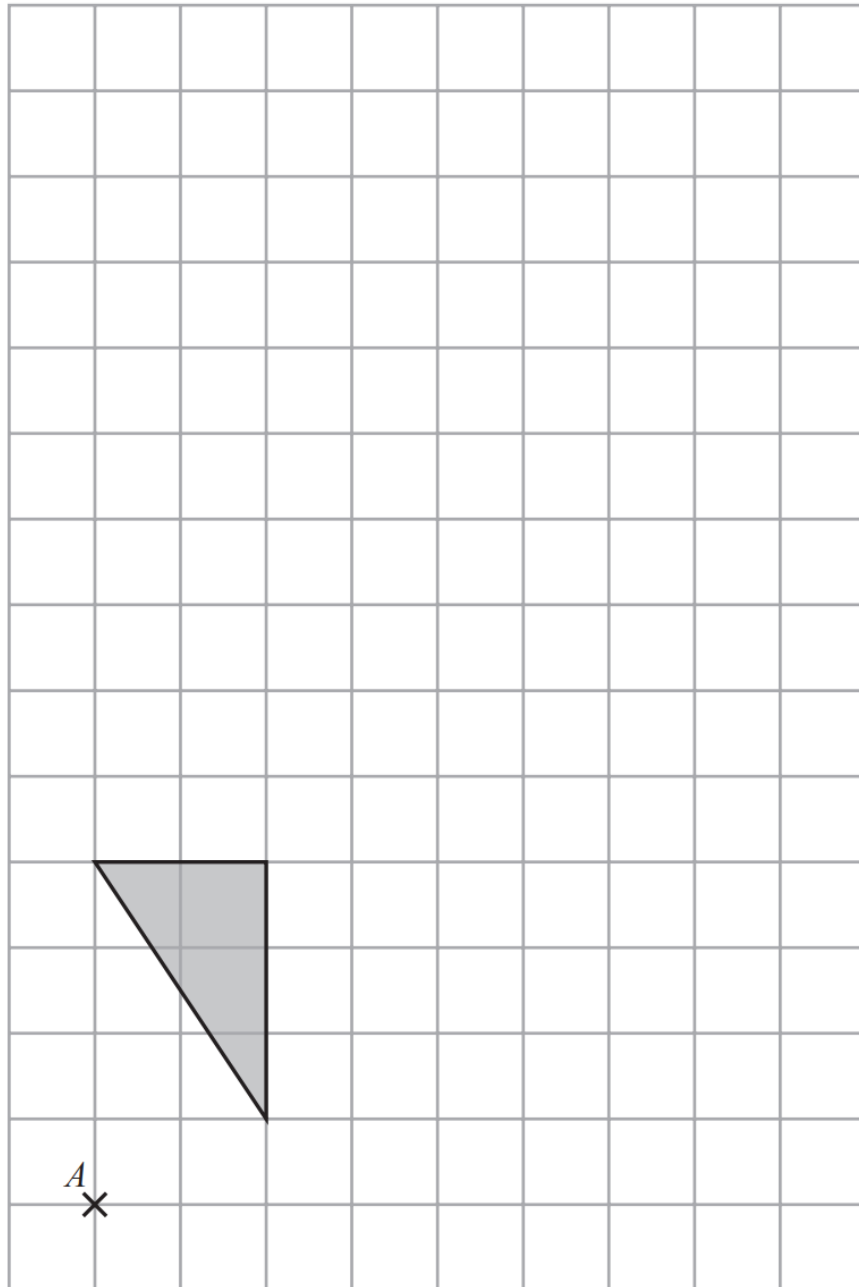
Enlarge shape **A** by scale factor  $\frac{1}{3}$  centre (0, 1)

[2 marks]



**Question 4**

A shaded shape is shown on the grid.

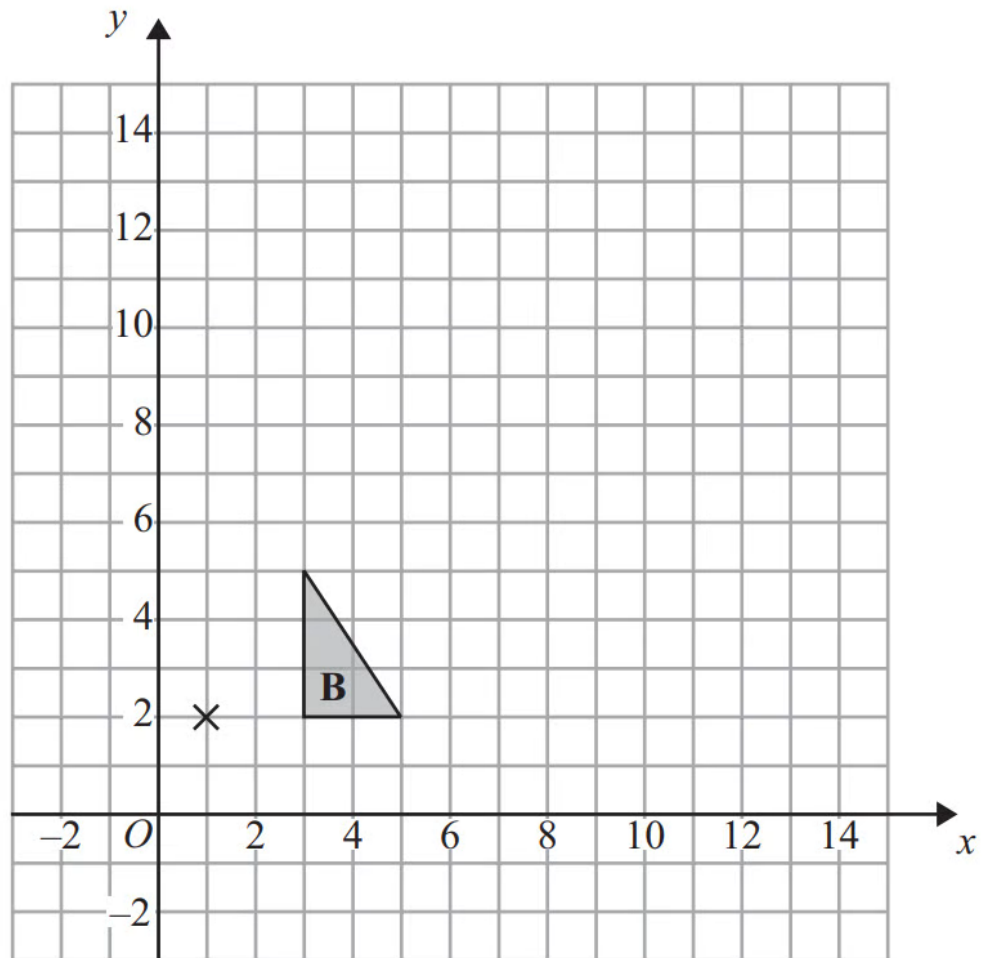


On the grid, enlarge the shape by a scale factor of 2, centre  $A$ .

[2 marks]



**Question 5**

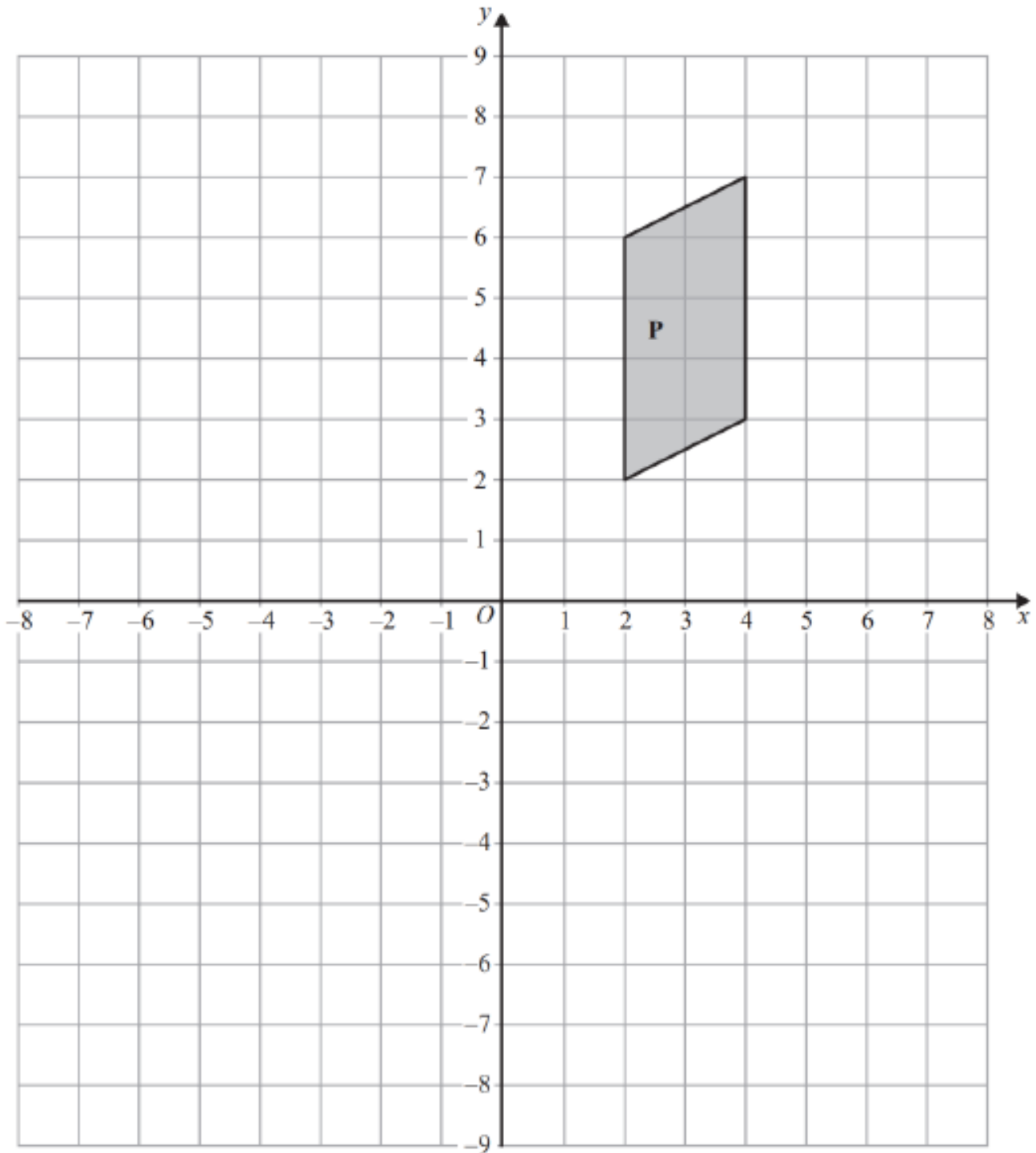


(b) Enlarge triangle **B** by scale factor 3, centre (1, 2).

[3 marks]



**Question 6**

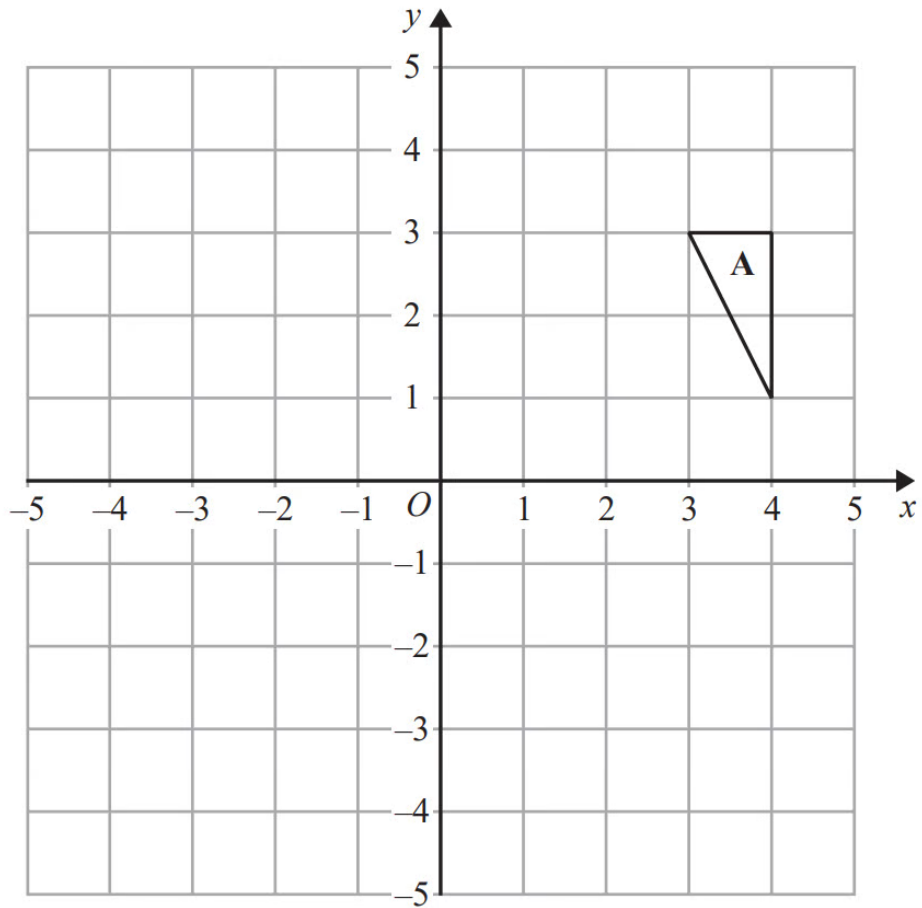


(a) Reflect shape **P** in the line  $x = -1$

[2 marks]



**Question 7**

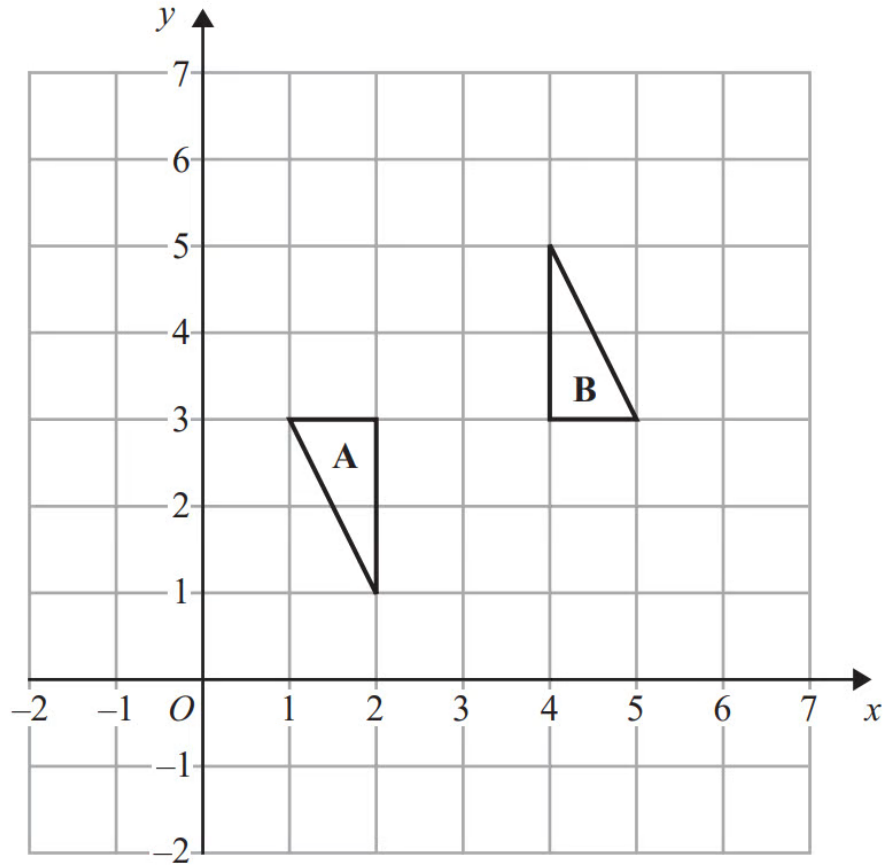


(a) Rotate triangle A  $90^\circ$  anticlockwise with centre  $O$ .

[2 marks]



**Question 8**



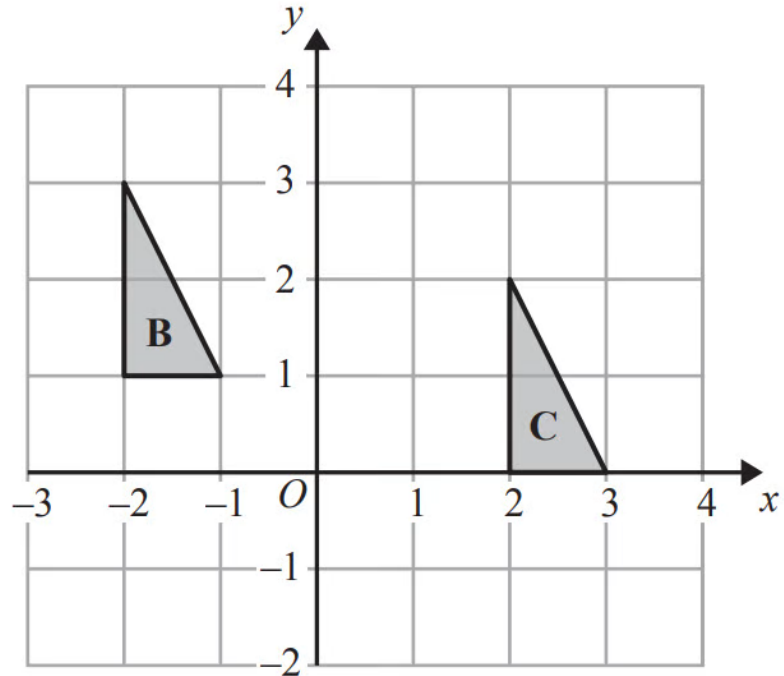
Describe fully the single transformation that maps triangle A onto triangle B.

[3 marks]





**Question 9**

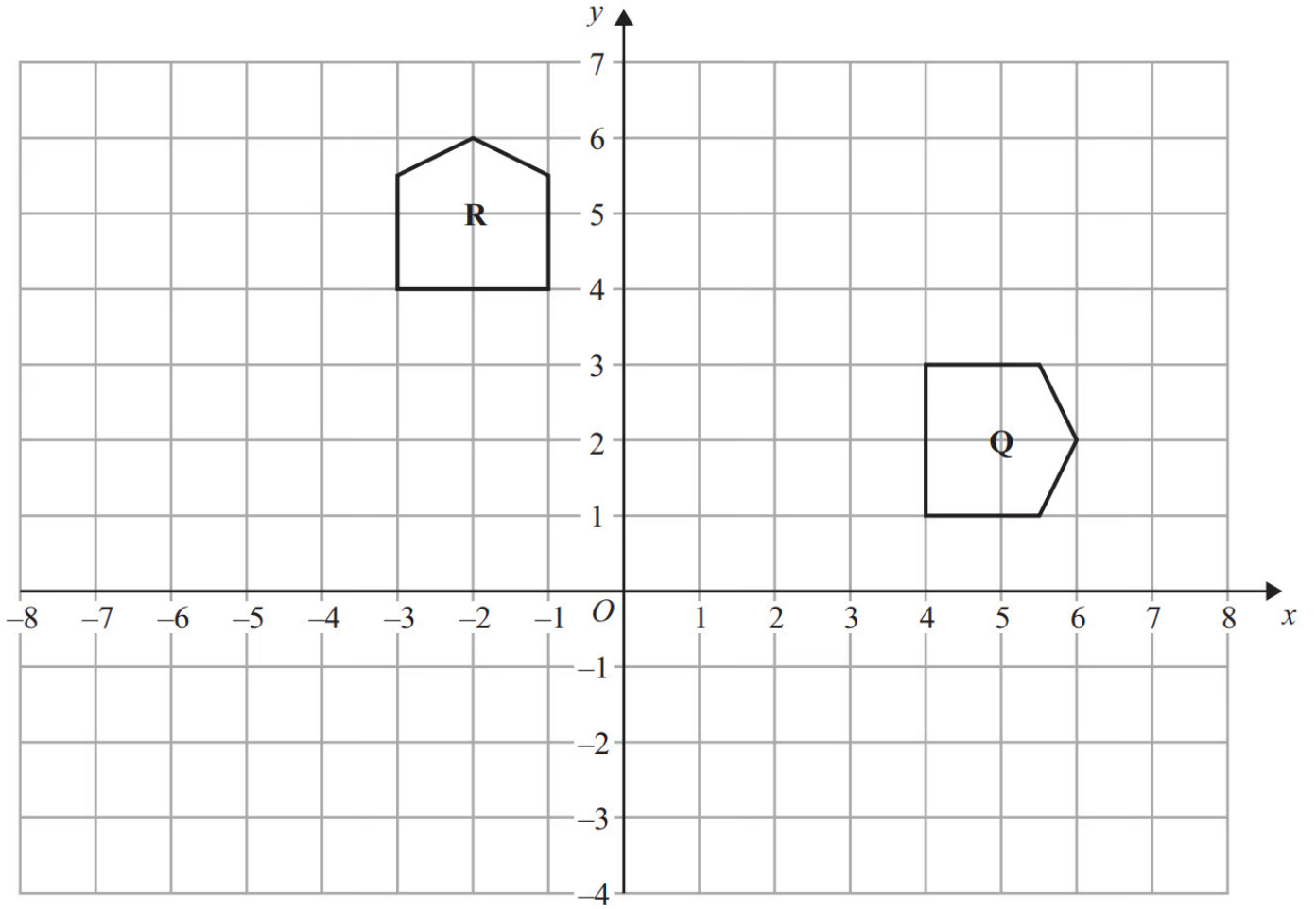


(b) Describe fully the single transformation that maps triangle **B** onto triangle **C**.

[2 marks]



**Question 10**

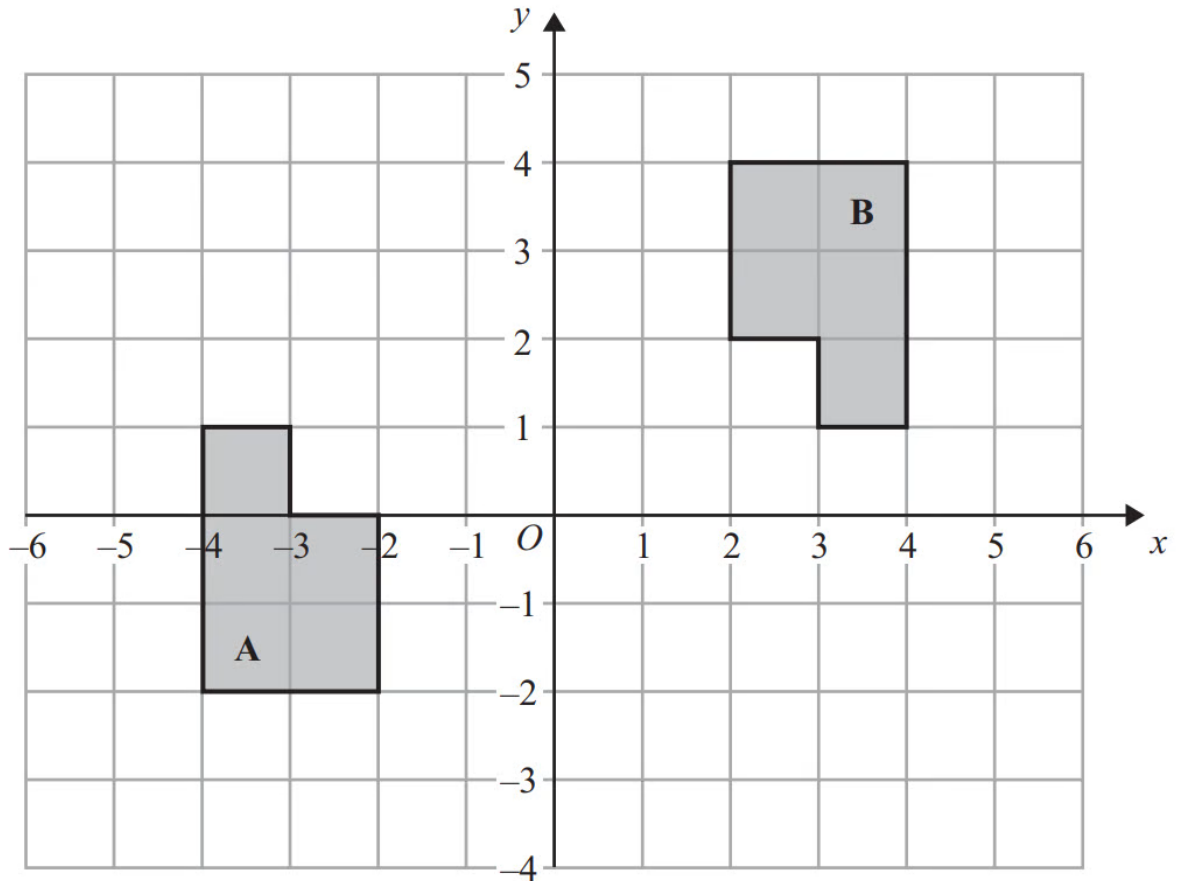


(b) Describe fully the single transformation that maps shape **Q** onto shape **R**.

**[3 marks]**



**Question 11**



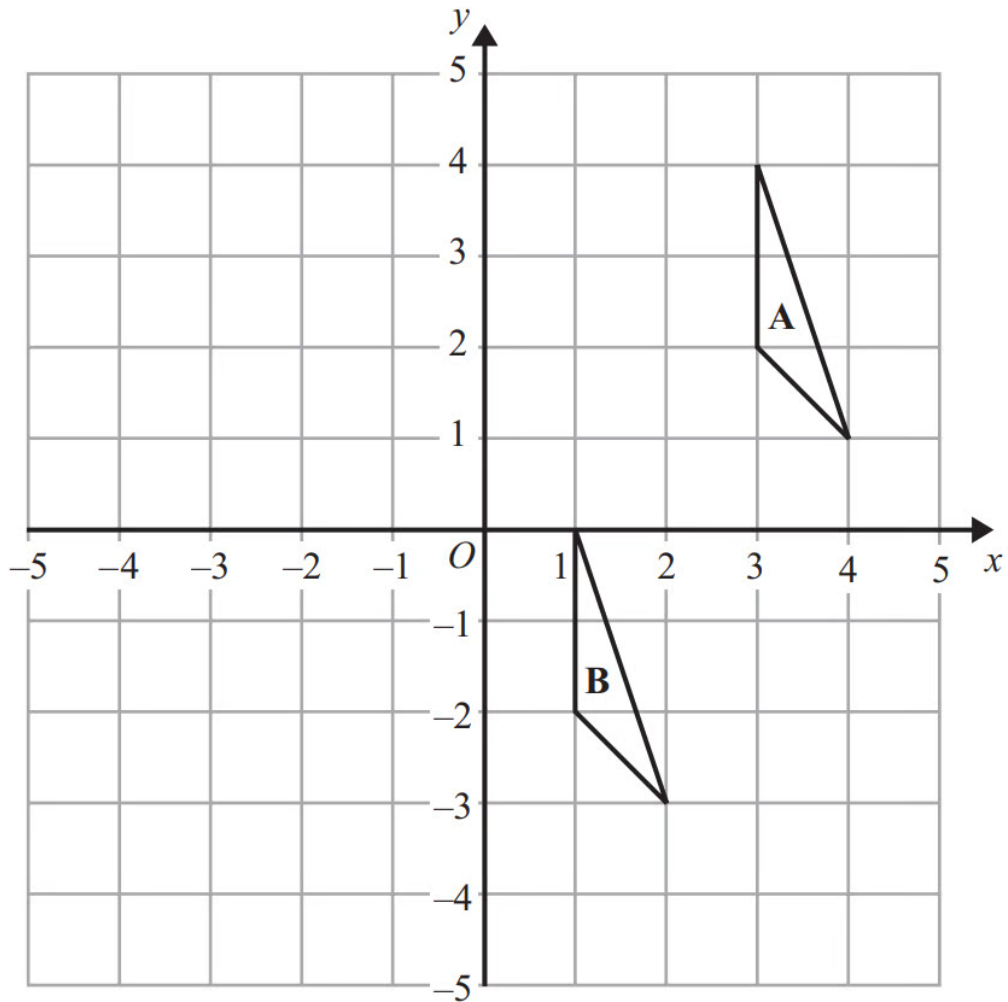
(b) Describe fully the single transformation that maps shape **A** onto shape **B**.

[3 marks]



**Question 12**

(b)

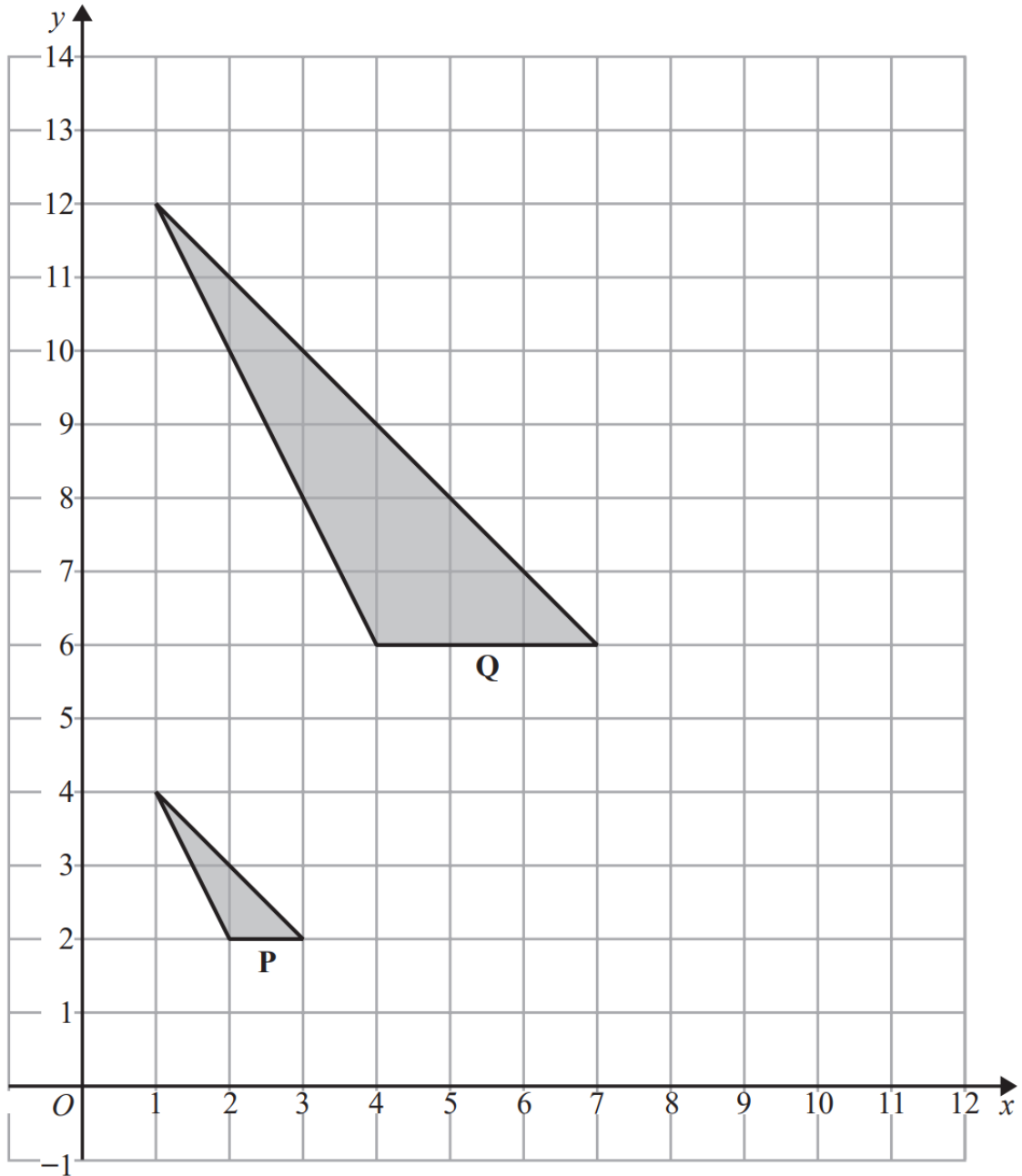


Describe fully the single transformation that maps triangle A onto triangle B.

[2 marks]



**Question 13**

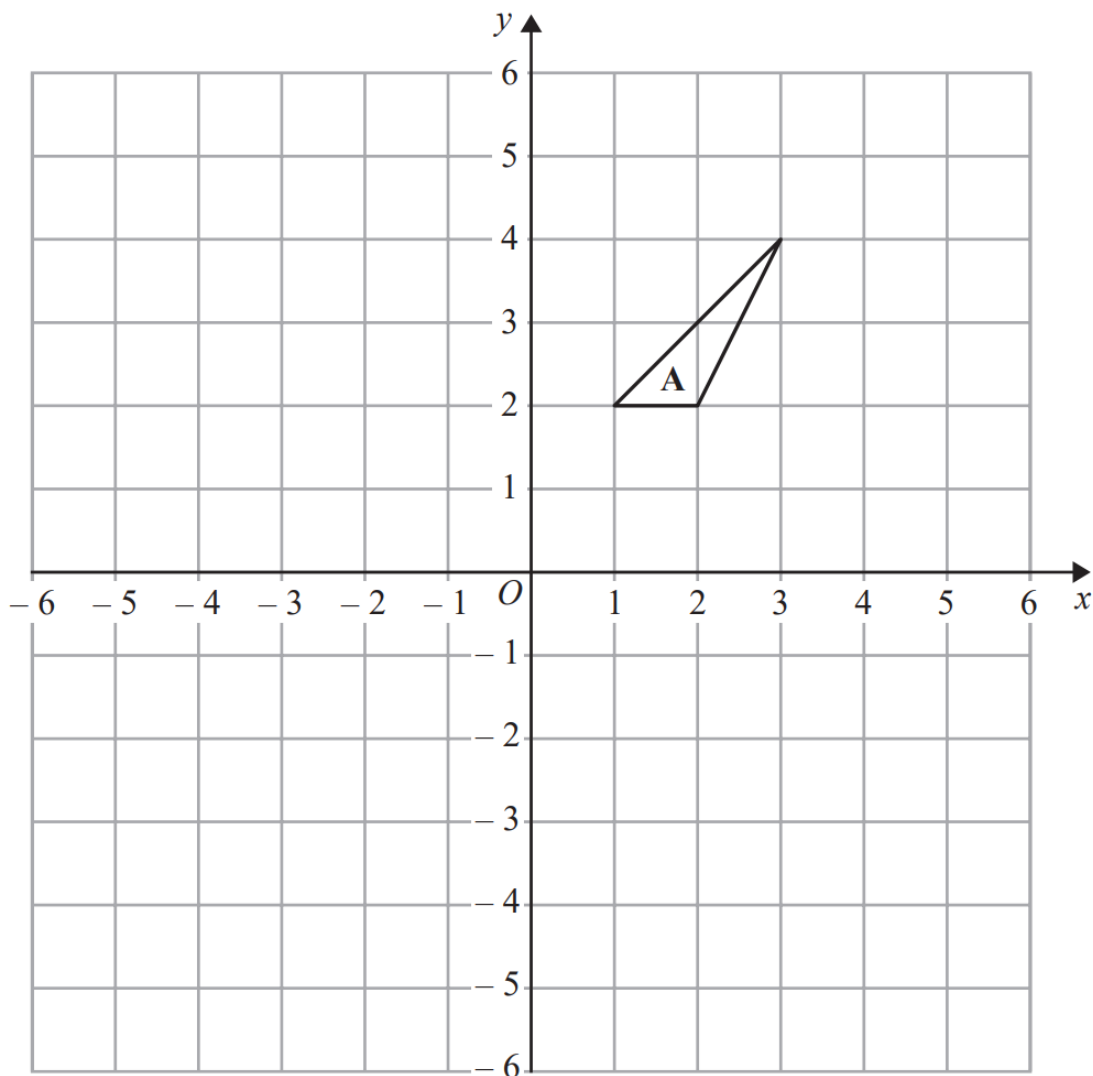


(b) Describe fully the single transformation that maps shape **P** onto shape **Q**.

**[3 marks]**



**Question 14**



Triangle **A** is rotated  $90^\circ$  clockwise about the point  $(0, 1)$  to give triangle **B**.

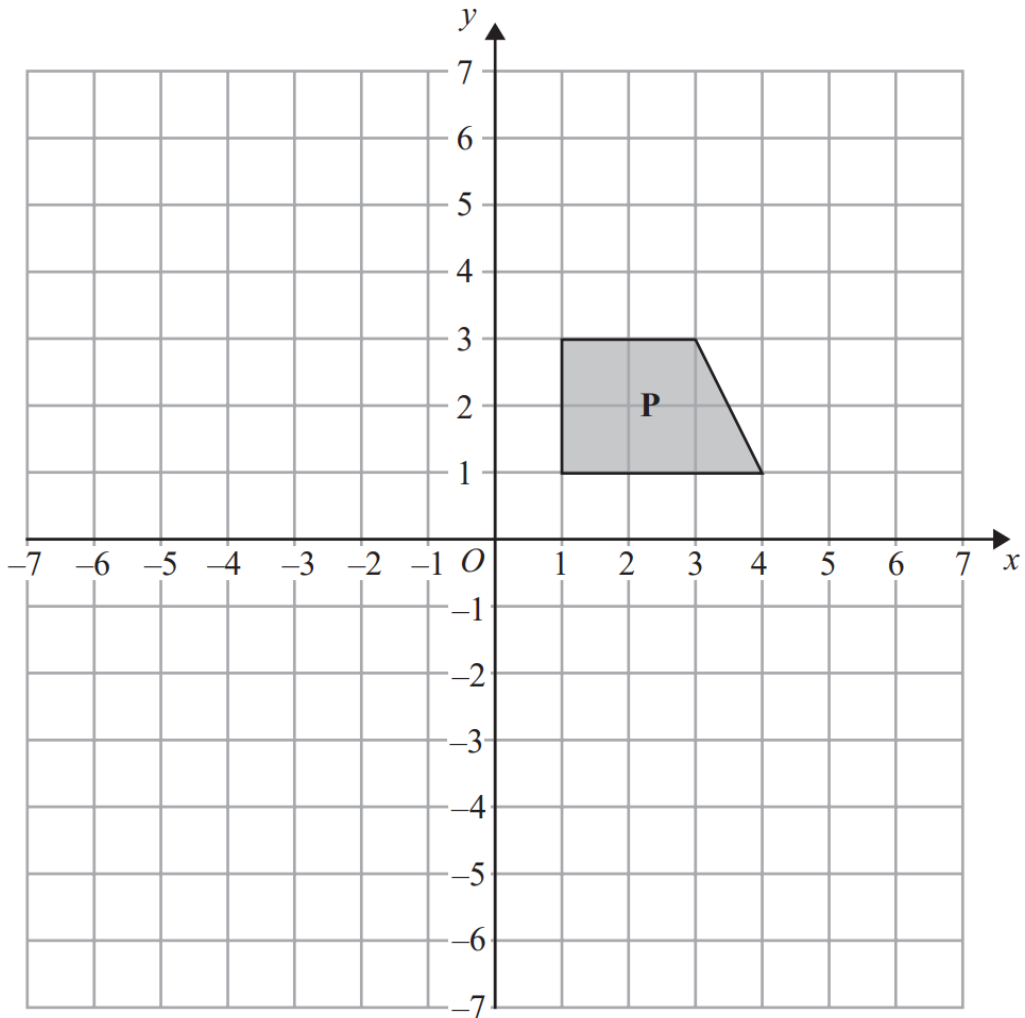
Triangle **B** is translated by the vector  $\begin{pmatrix} -3 \\ -1 \end{pmatrix}$  to give triangle **C**.

Describe fully the single transformation that maps triangle **A** onto triangle **C**.

[3 marks]



**Question 15**



Shape **P** is reflected in the line  $x = -1$  to give shape **Q**.

Shape **Q** is reflected in the line  $y = 0$  to give shape **R**.

Describe fully the **single** transformation that maps shape **P** onto shape **R**.

[3 marks]