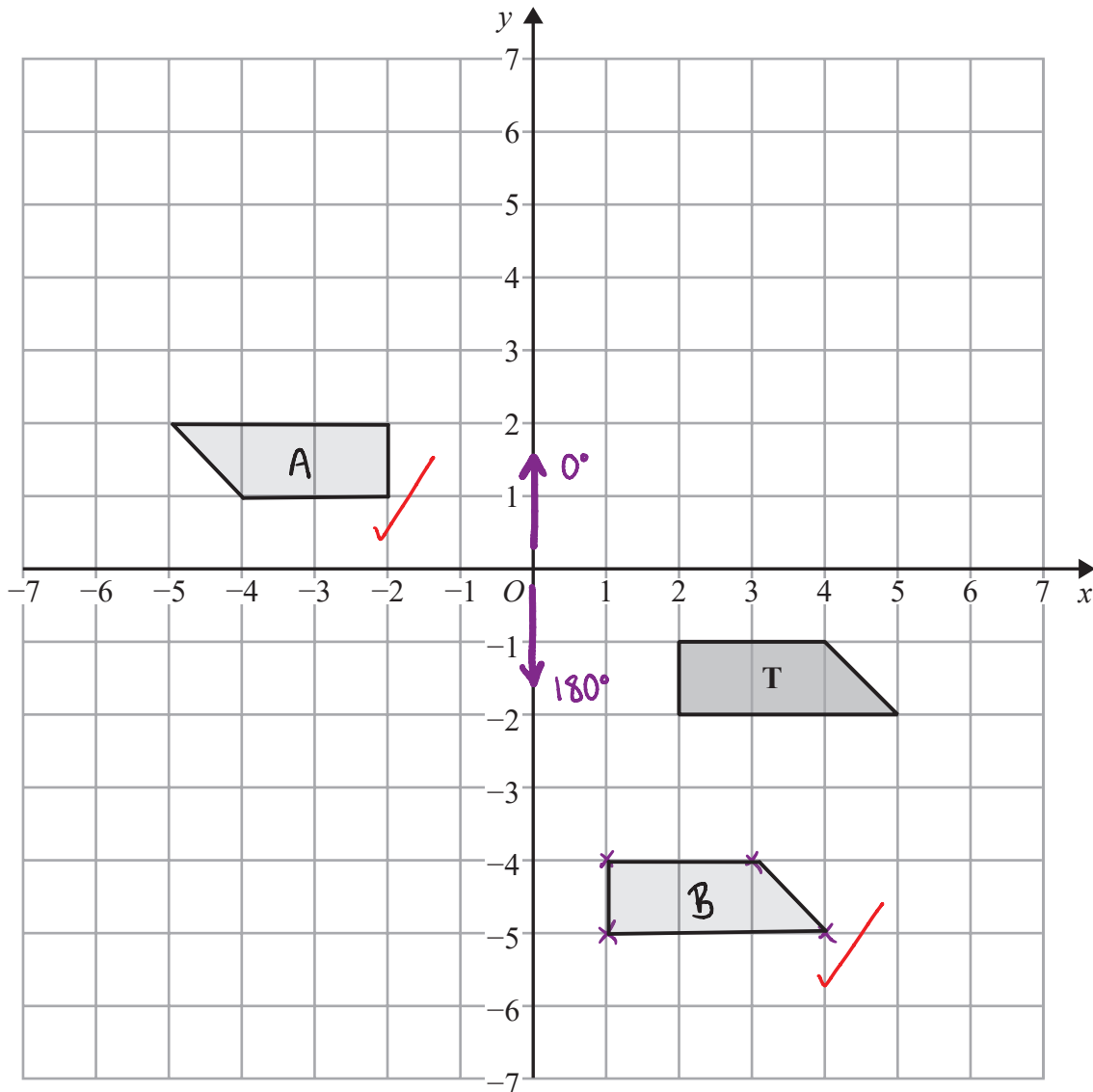


1.



- (a) Rotate trapezium **T**  $180^\circ$  about the origin.  
Label the new trapezium **A**.

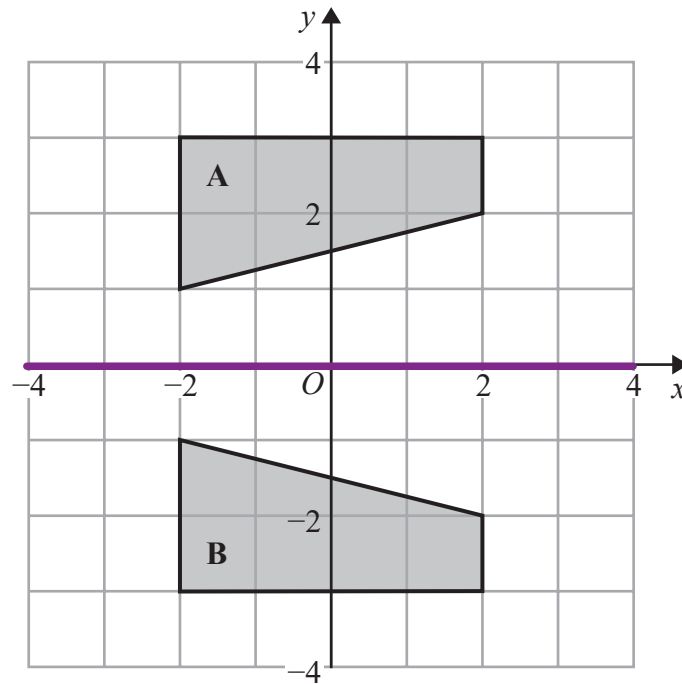
(1)

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

(1)

(Total for Question is 2 marks)

2.



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

Reflection in the x-axis

(Total for Question is 2 marks)

Cotton: Silk  
2 : 5

2 : 5  
↓ ×3 ↓  
6 : 15 ← Price of 2m

Cotton  
2m costs £6  
(+2) (+2)  
1m costs £3

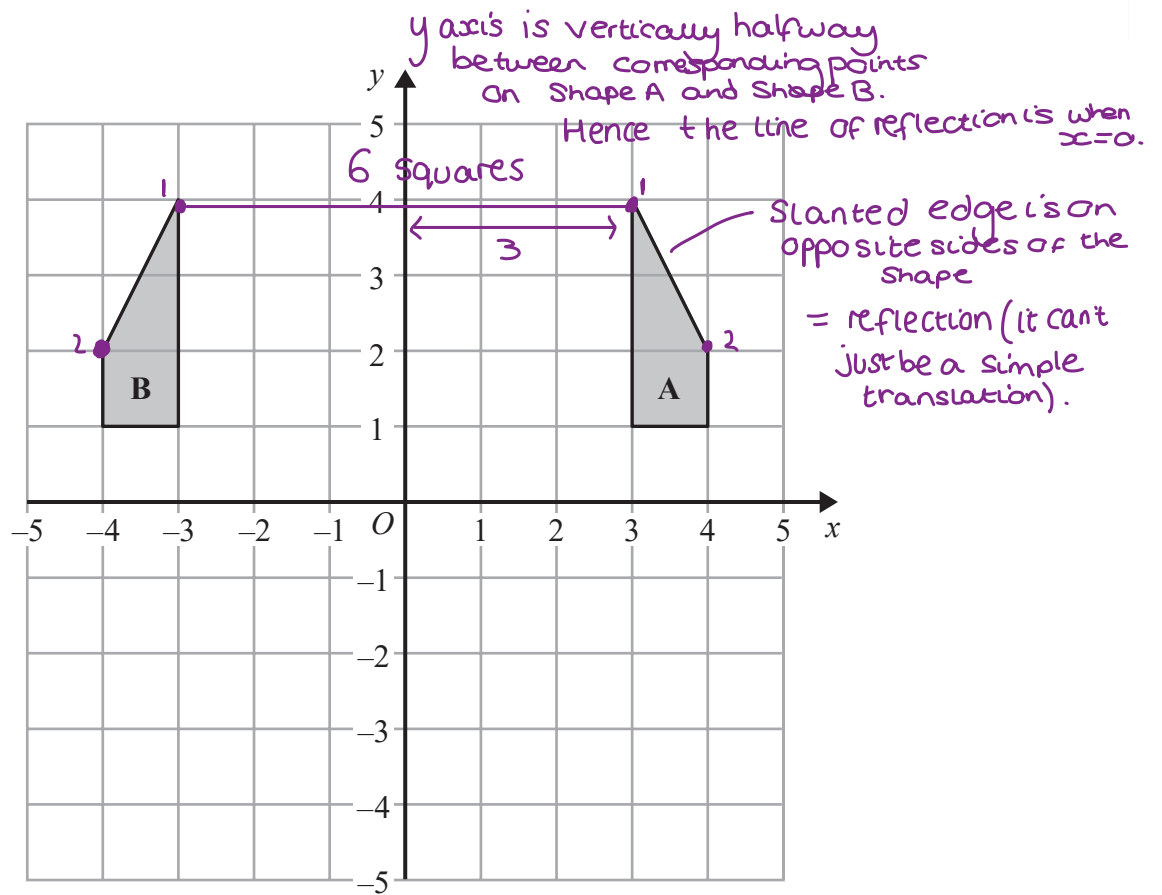
3 × 6 = £18  
3 × 8 = £24  
3 × 9 = £27

Silk  
2m costs £15  
(+2) (+2)  
1m costs £7.50

6 × 7.50 = £45  
8 × 7.50 = £60  
9 × 7.50 = £67.50

	£18	£24	£27	✓
£15	£45	£60	£67.50	✓✓

3.

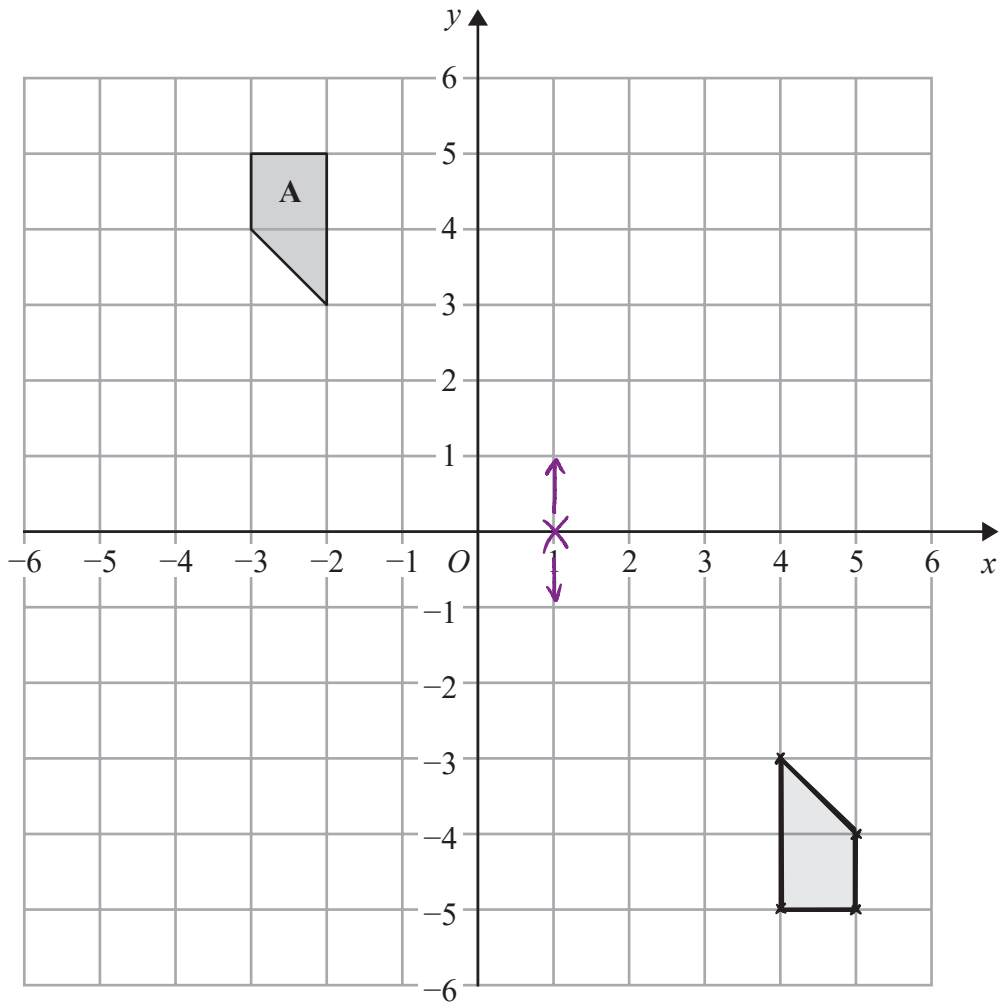


Describe fully the **single transformation** that maps shape **A** onto shape **B**.

reflection<sup>①</sup> in the y-axis<sup>①</sup>

(Total for Question is 2 marks)

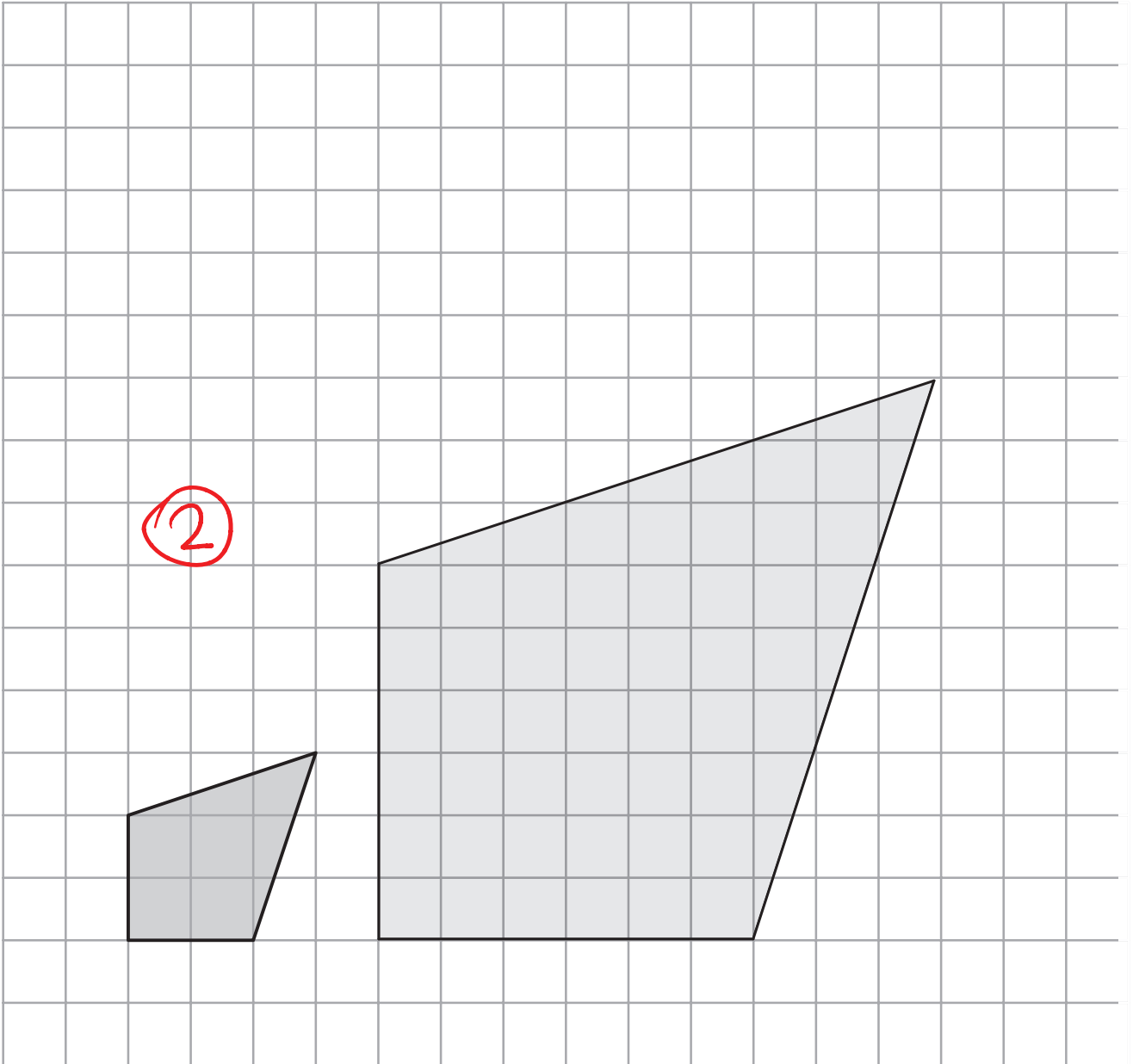
4.



Rotate shape A  $180^\circ$  about  $(1, 0)$

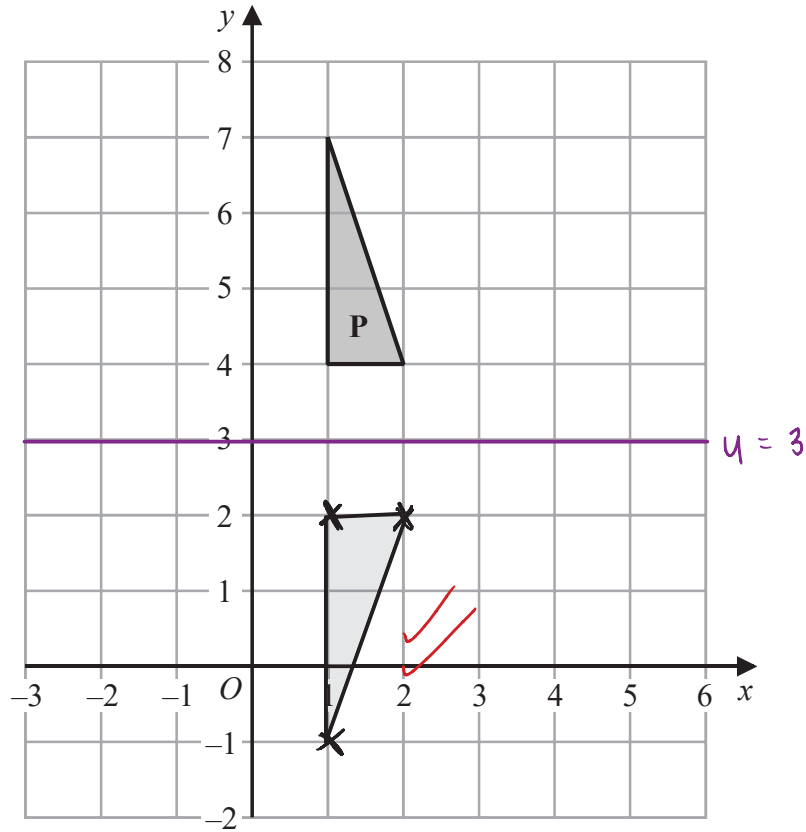
(Total for Question is 2 marks)

5.



On the grid, draw an enlargement of the shaded shape with a scale factor of 3

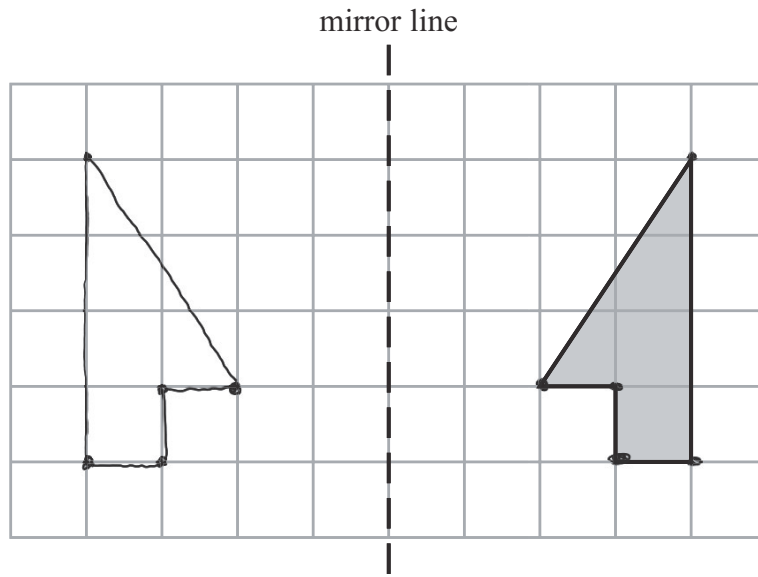
6.



Reflect shape **P** in the line  $y = 3$

(Total for Question is 2 marks)

7.



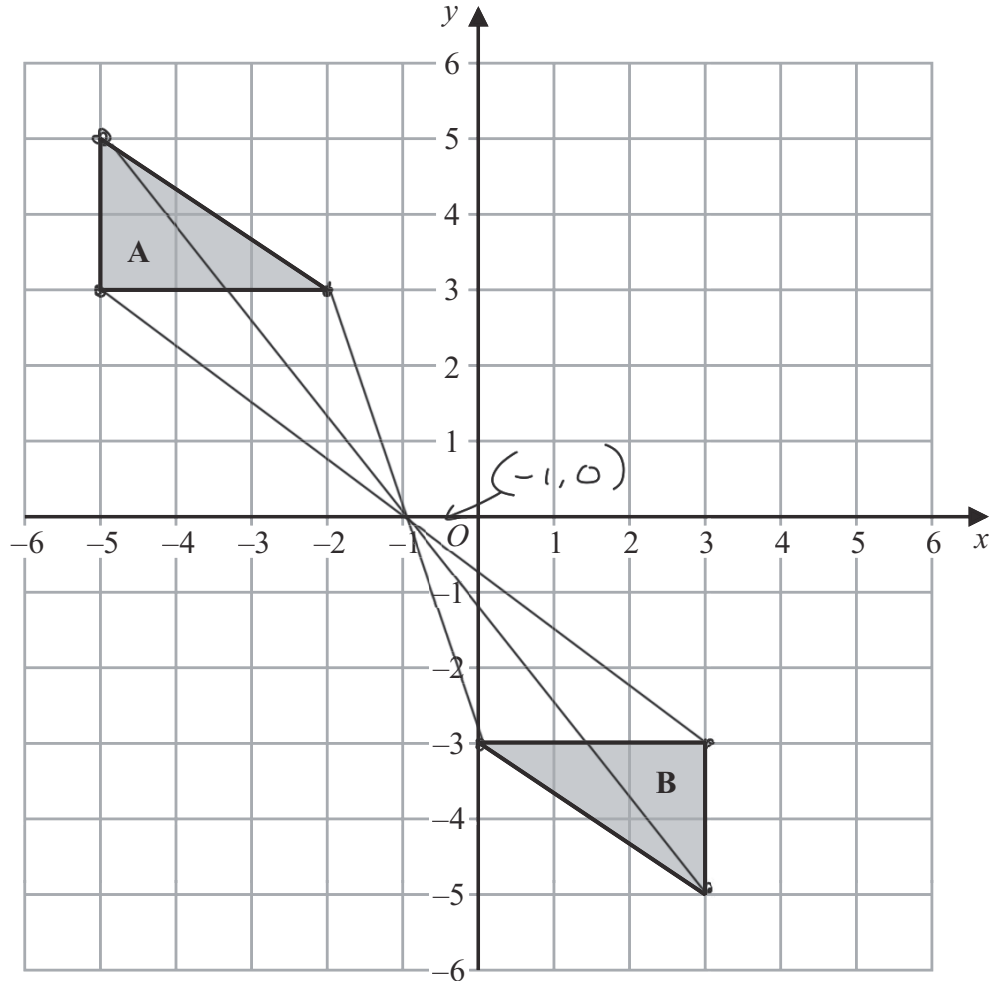
Reflect the shaded shape in the mirror line.

(Total for Question is 2 marks)



DO NOT WRITE IN THIS AREA

8.



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

Rotation of  $180^\circ$  about the point  $(-1, 0)$

(Total for Question is 2 marks)



9. Reflect shape A in the mirror line.

