

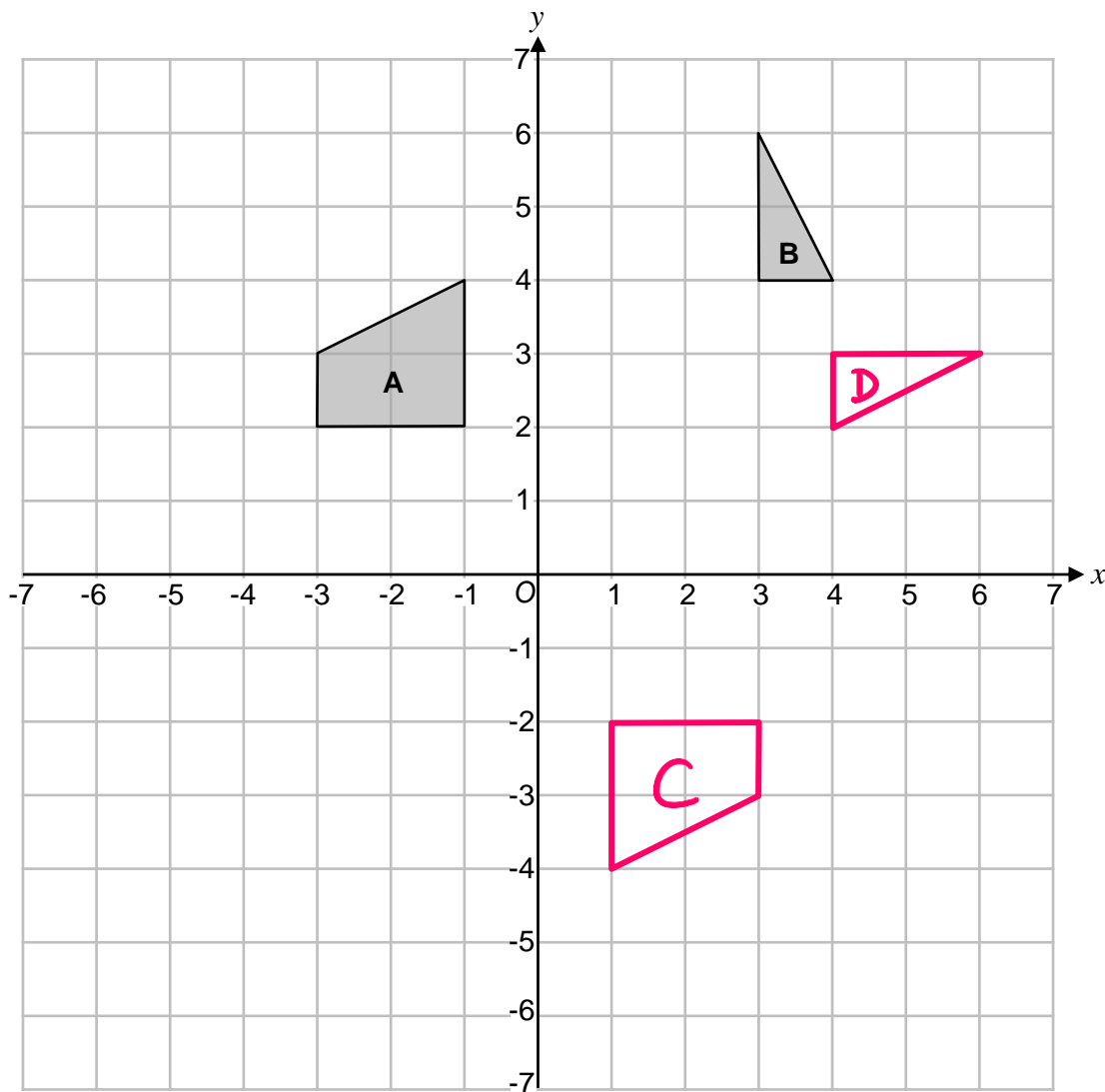


# Rotations



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TOPIC

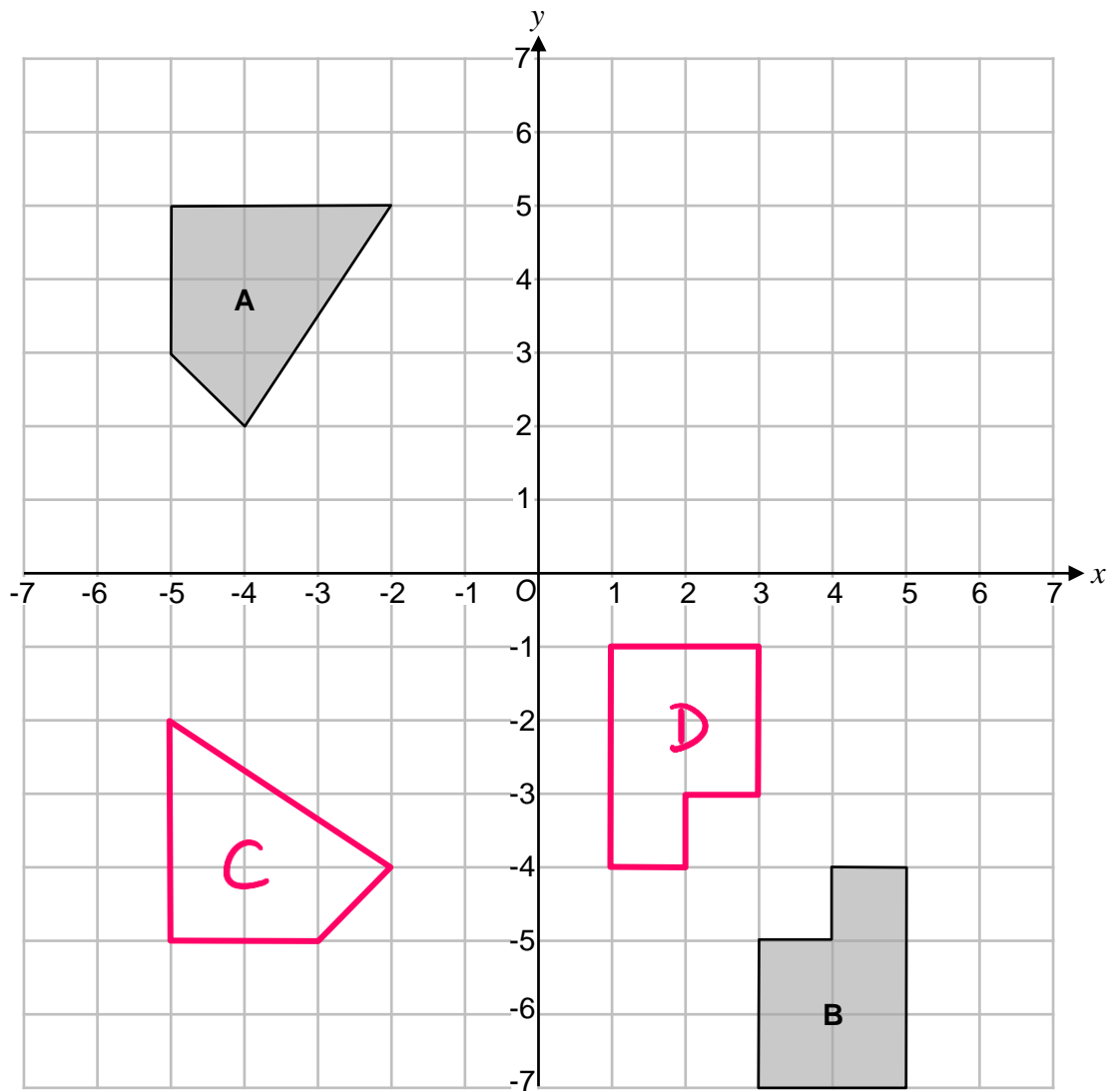
- 1 Shape **A** and Shape **B** are shown on the grid below.



- 1 (a) Rotate shape **A**  $180^\circ$  about  $(0, 0)$  [2 marks]  
Label the image shape **C**.
- 1 (b) Rotate shape **B**  $90^\circ$  clockwise about  $(3, 3)$  [2 marks]  
Label the image shape **D**.



2 Shape **A** and Shape **B** are shown on the grid below.

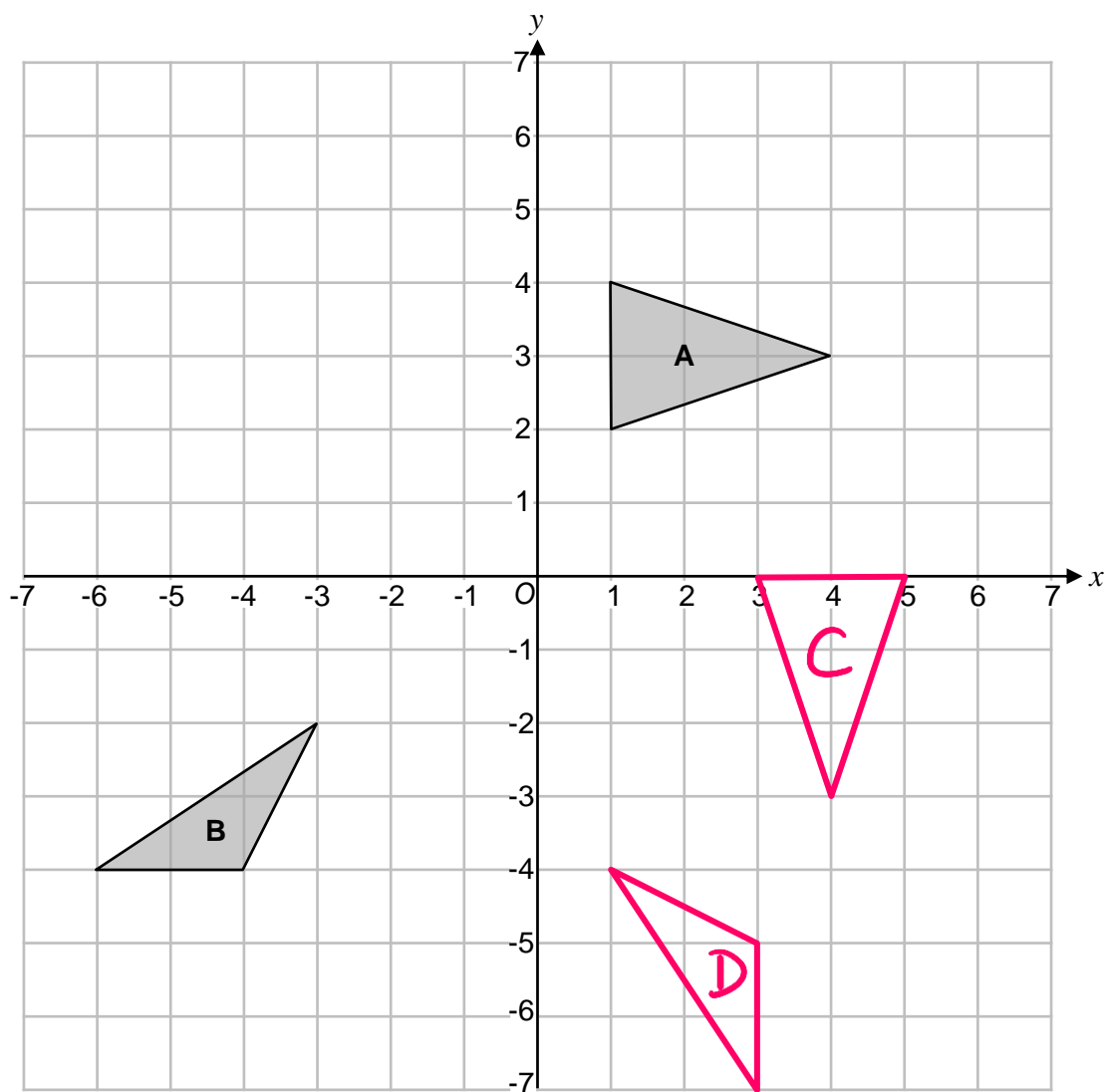


2 (a) Rotate shape **A**  $90^\circ$  anticlockwise about  $(0, 0)$  [2 marks]  
Label the image shape **C**.

2 (b) Rotate shape **B**  $180^\circ$  about  $(3, -4)$  [2 marks]  
Label the image shape **D**.



3 Shape **A** and Shape **B** are shown on the grid below.

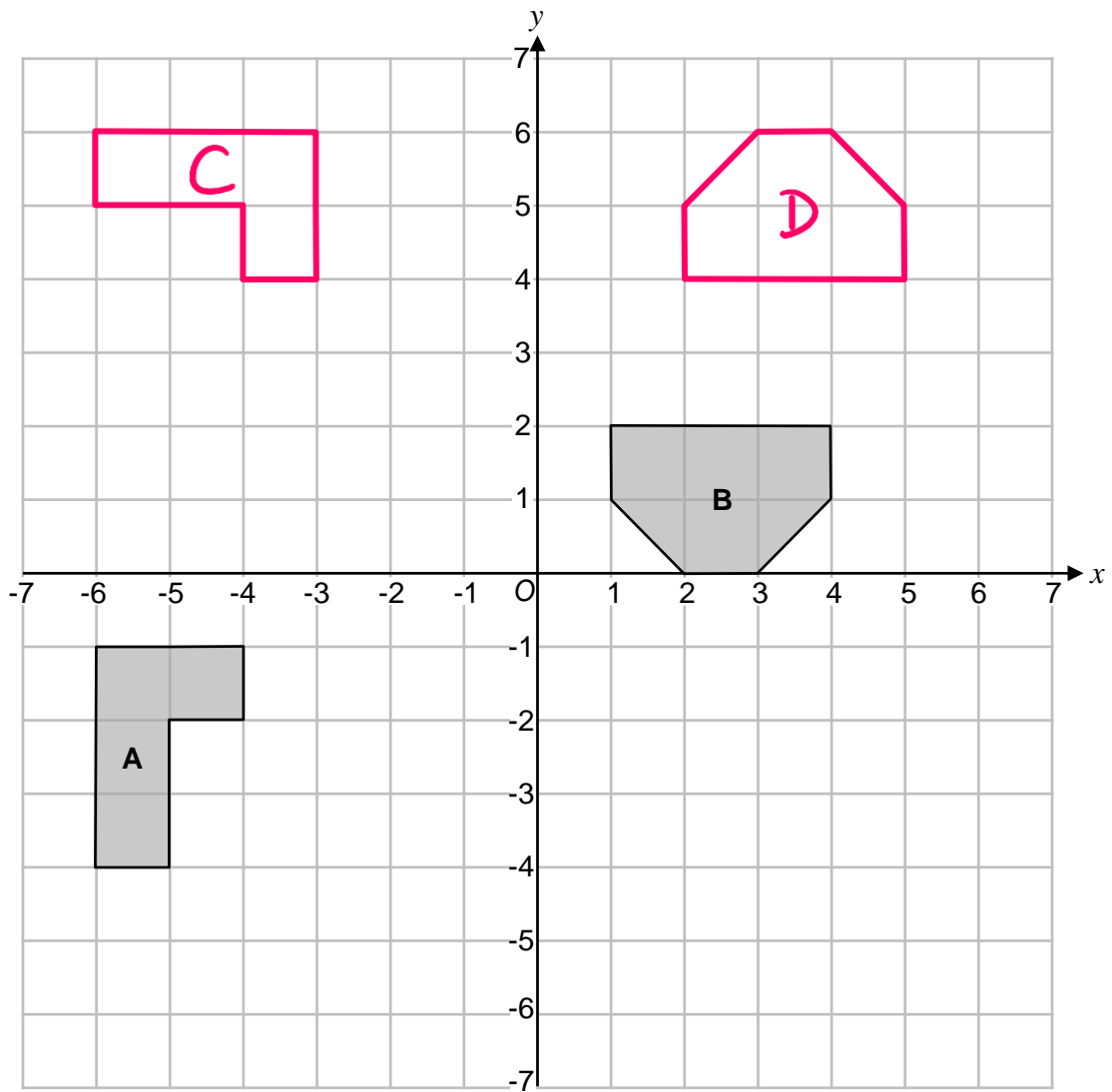


3 (a) Rotate shape **A**  $90^\circ$  clockwise about  $(1, 0)$  [2 marks]  
Label the image shape **C**.

3 (b) Rotate shape **B**  $90^\circ$  anticlockwise about  $(0, -1)$  [2 marks]  
Label the image shape **D**.



4 Shape **A** and Shape **B** are shown on the grid below.



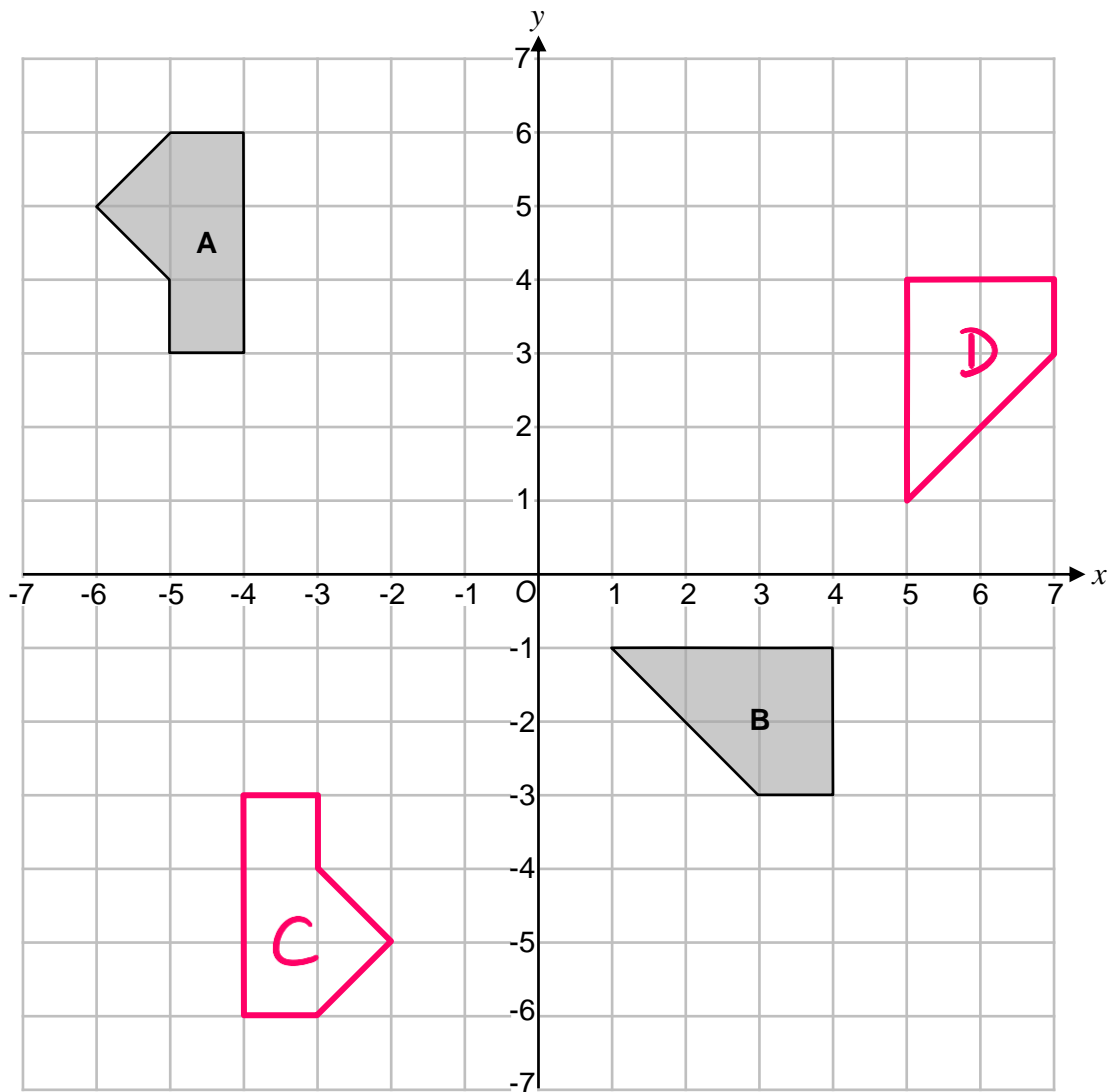
4 (a) Rotate shape **A**  $90^\circ$  clockwise about  $(-1, 1)$  [2 marks]  
Label the image shape **C**.

4 (b) Rotate shape **B**  $180^\circ$  about  $(3, 3)$  [2 marks]  
Label the image shape **D**.



5

Shape **A** and Shape **B** are shown on the grid below.



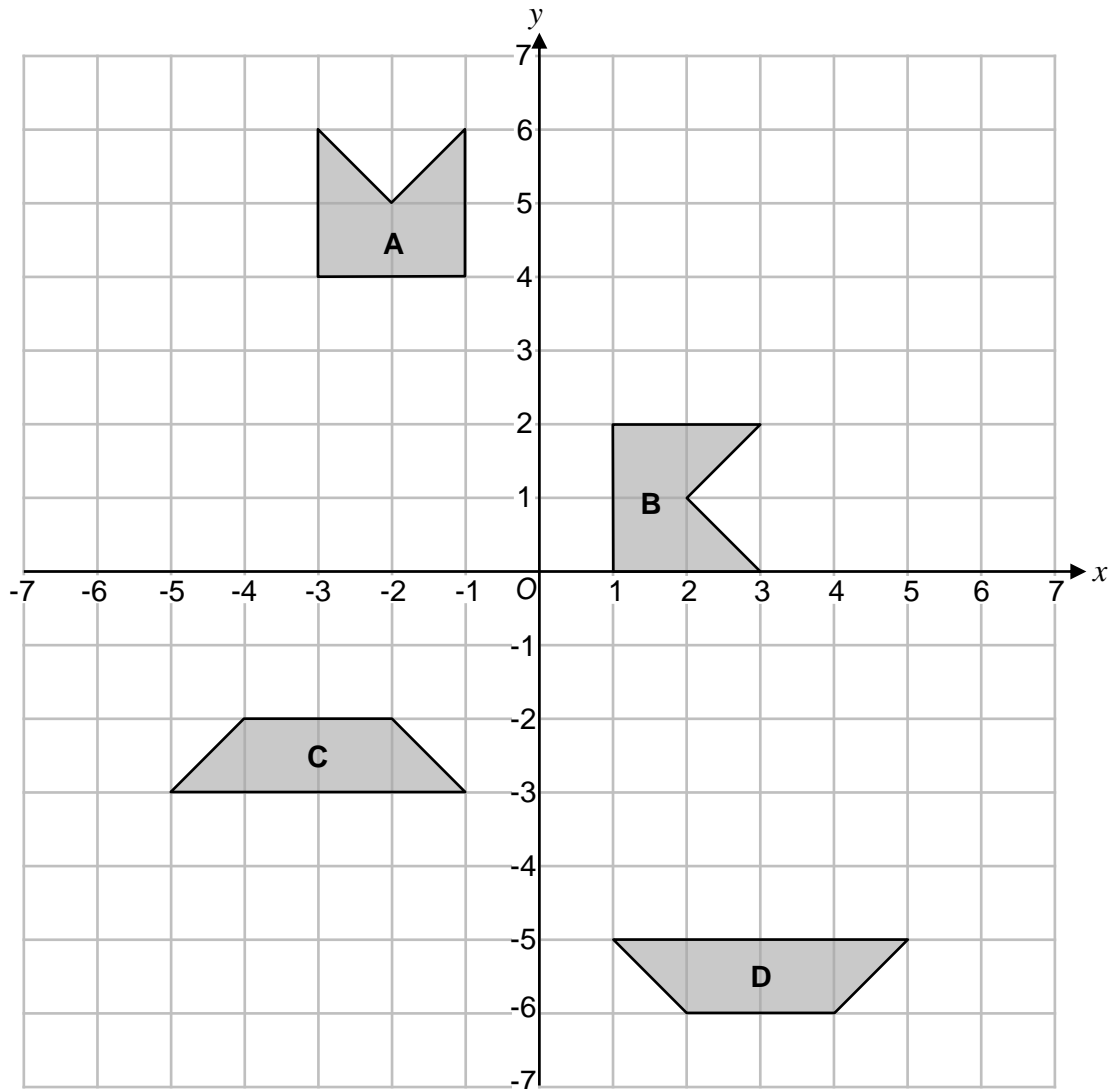
- 5 (a) Rotate shape **A**  $180^\circ$  about  $(-4, 0)$  [2 marks]  
Label the image shape **C**.

- 5 (b) Rotate shape **B**  $90^\circ$  anticlockwise about  $(2, 2)$  [2 marks]  
Label the image shape **D**.





6



- 6 (a) Describe fully the single transformation that maps shape **A** onto shape **B**. [2 marks]

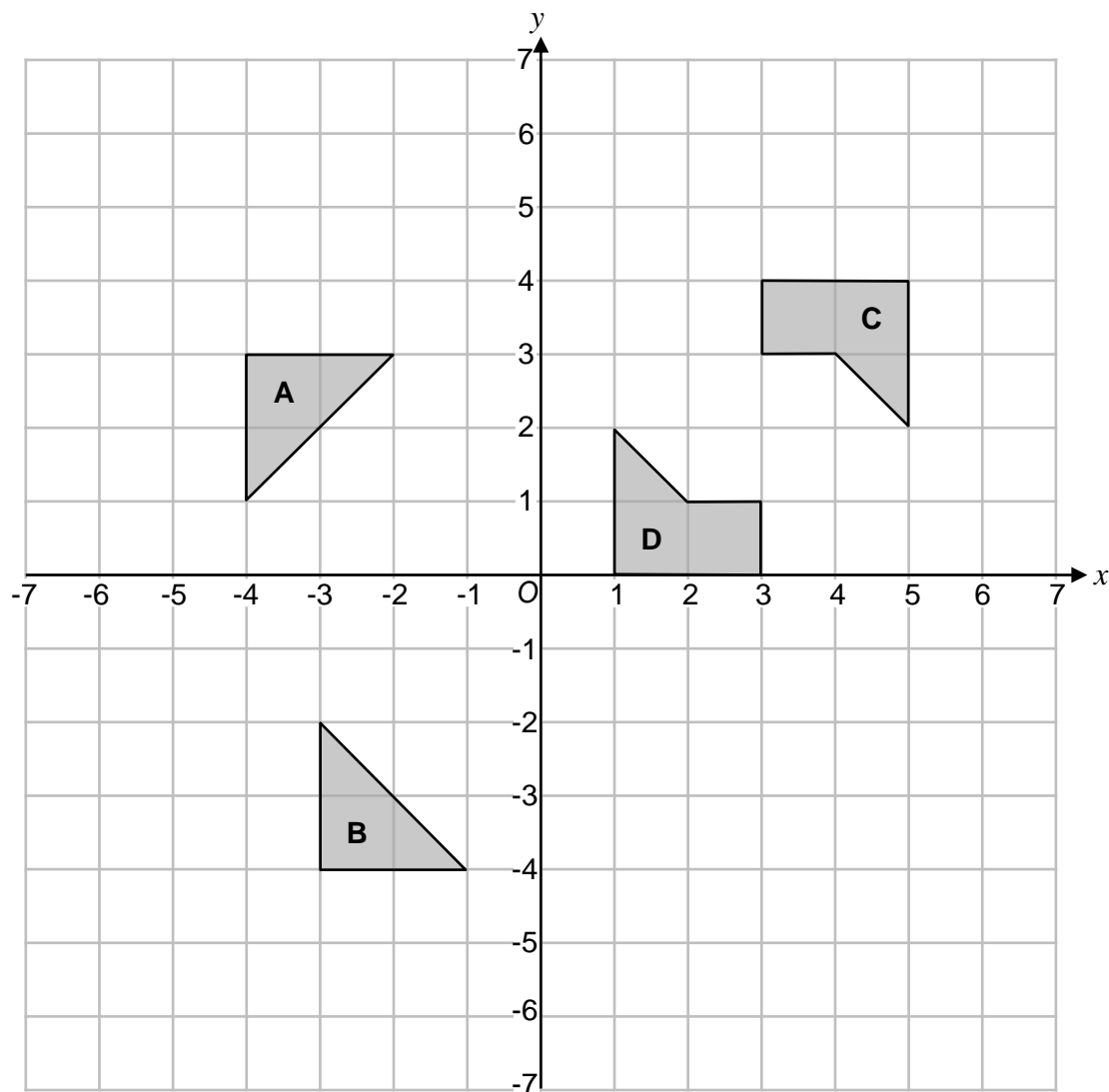
Rotation  $90^\circ$  clockwise about  $(-2, 1)$

- 6 (b) Describe fully the single transformation that maps shape **C** onto shape **D**. [2 marks]

Rotation  $180^\circ$  about  $(0, -4)$



7



- 7 (a) Describe fully the single transformation that maps shape **A** onto shape **B**. [2 marks]

Rotation  $90^\circ$  anticlockwise about  $(0,0)$

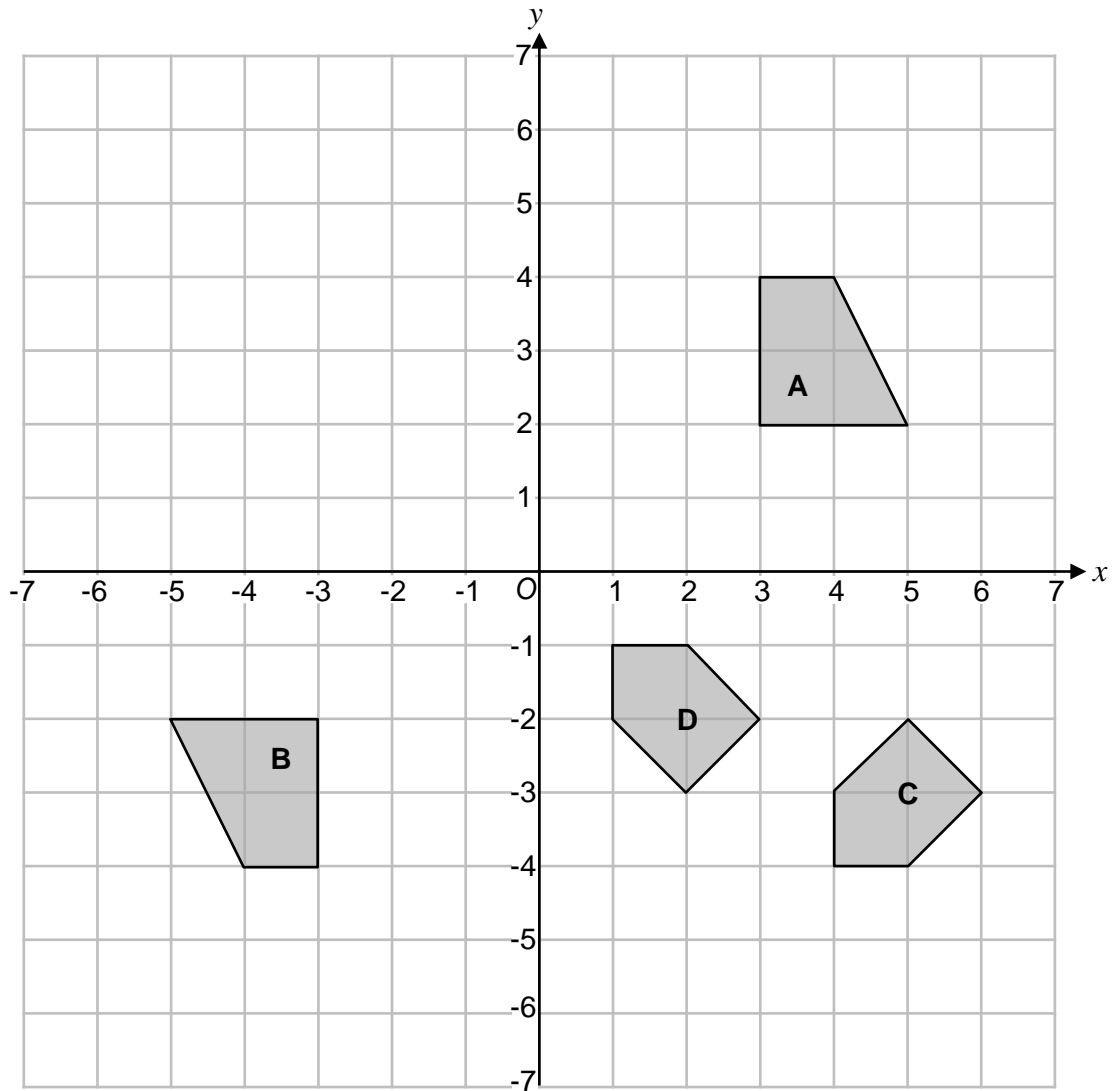
- 7 (b) Describe fully the single transformation that maps shape **C** onto shape **D**. [2 marks]

Rotation  $180^\circ$  about  $(3,2)$





8



- 8 (a) Describe fully the single transformation that maps shape **A** onto shape **B**. [2 marks]

Rotation  $180^\circ$  about  $(0,0)$

- 8 (b) Describe fully the single transformation that maps shape **C** onto shape **D**. [2 marks]

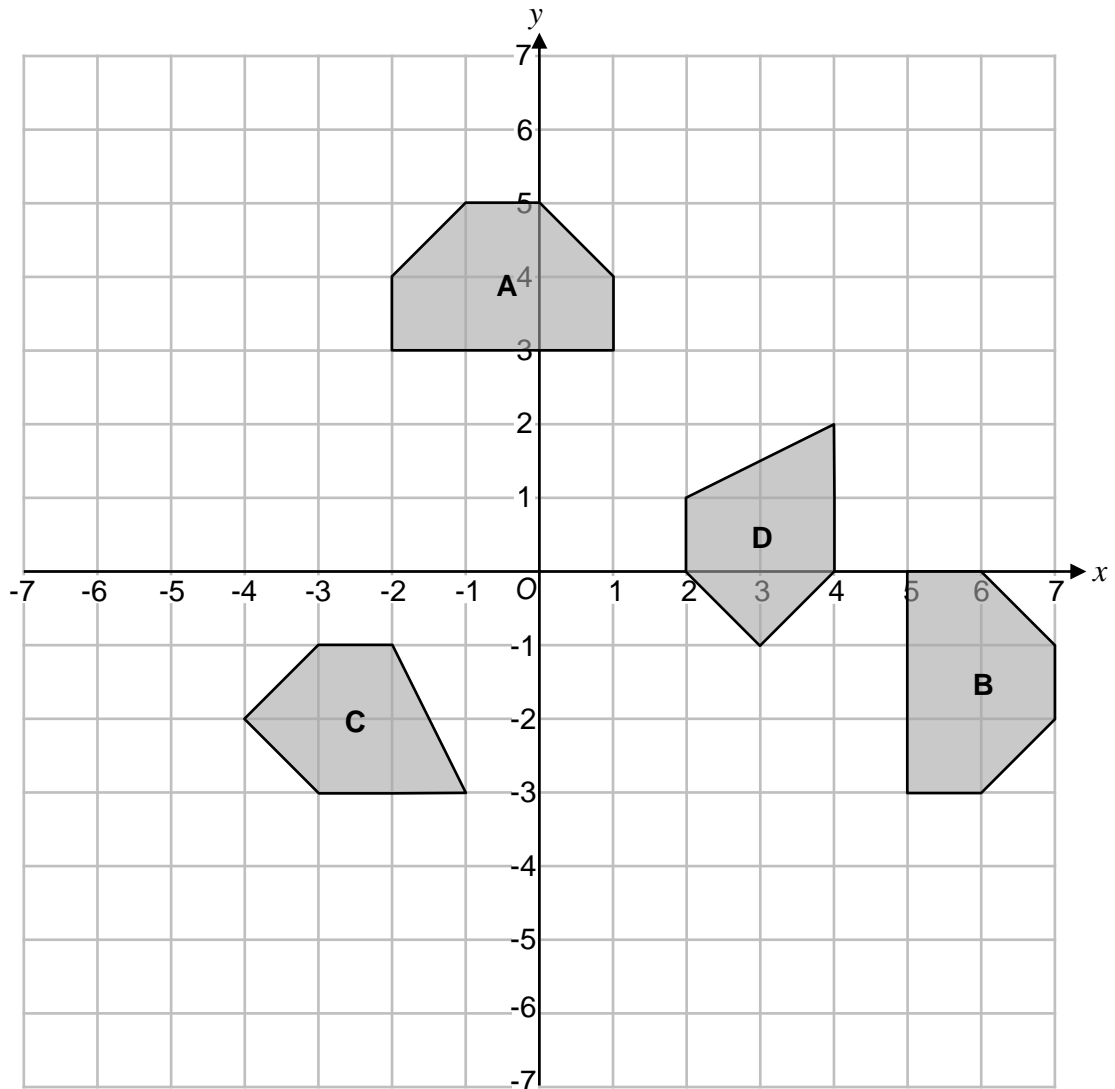
Rotation  $90^\circ$  clockwise about  $(4,-1)$







9



- 9 (a) Describe fully the single transformation that maps shape **A** onto shape **B**. [2 marks]

Rotation  $90^\circ$  clockwise about  $(0, -2)$

- 9 (b) Describe fully the single transformation that maps shape **C** onto shape **D**. [2 marks]

Rotation  $90^\circ$  anticlockwise about  $(-1, 2)$

