



# Rotations



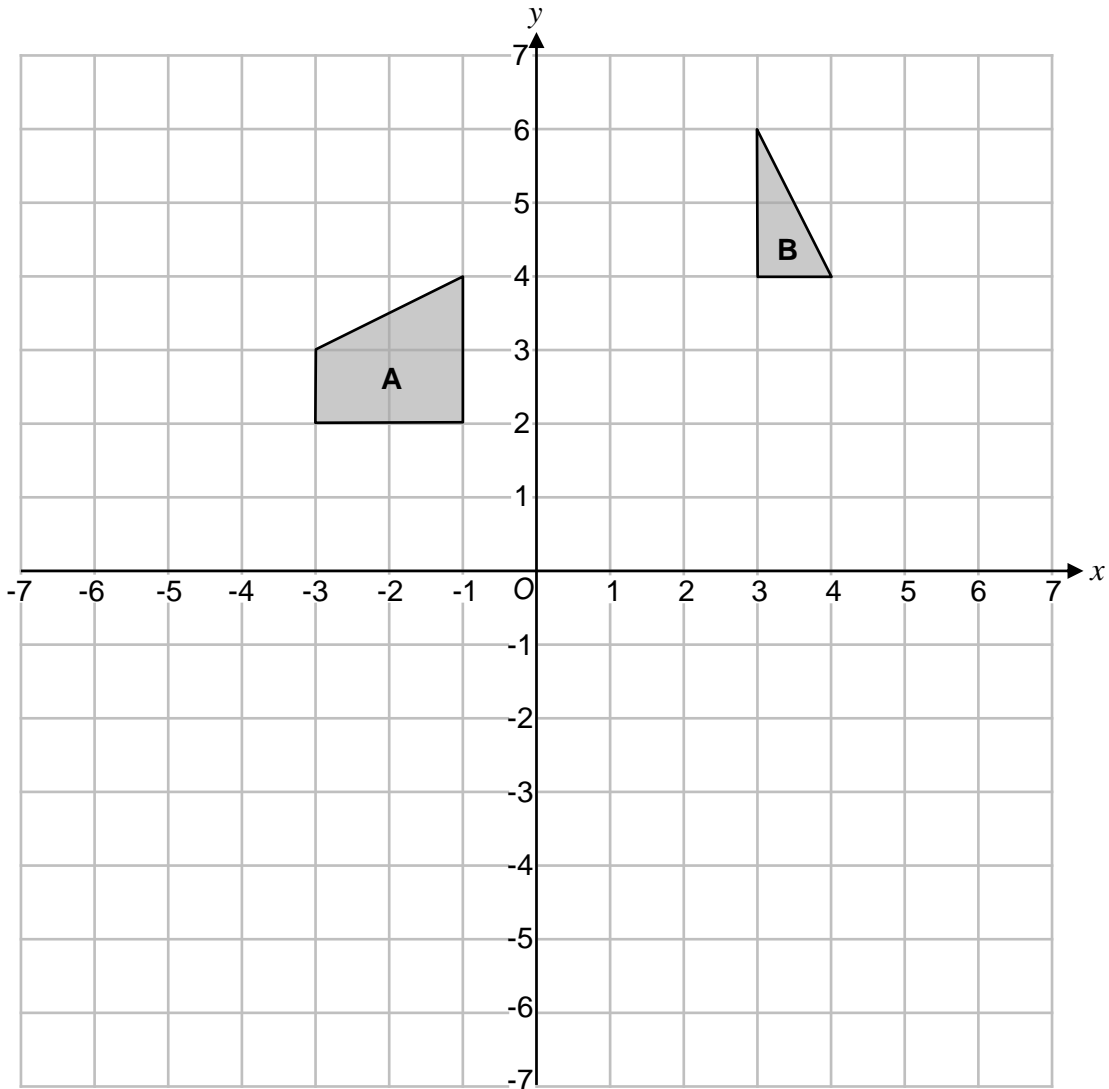
SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

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



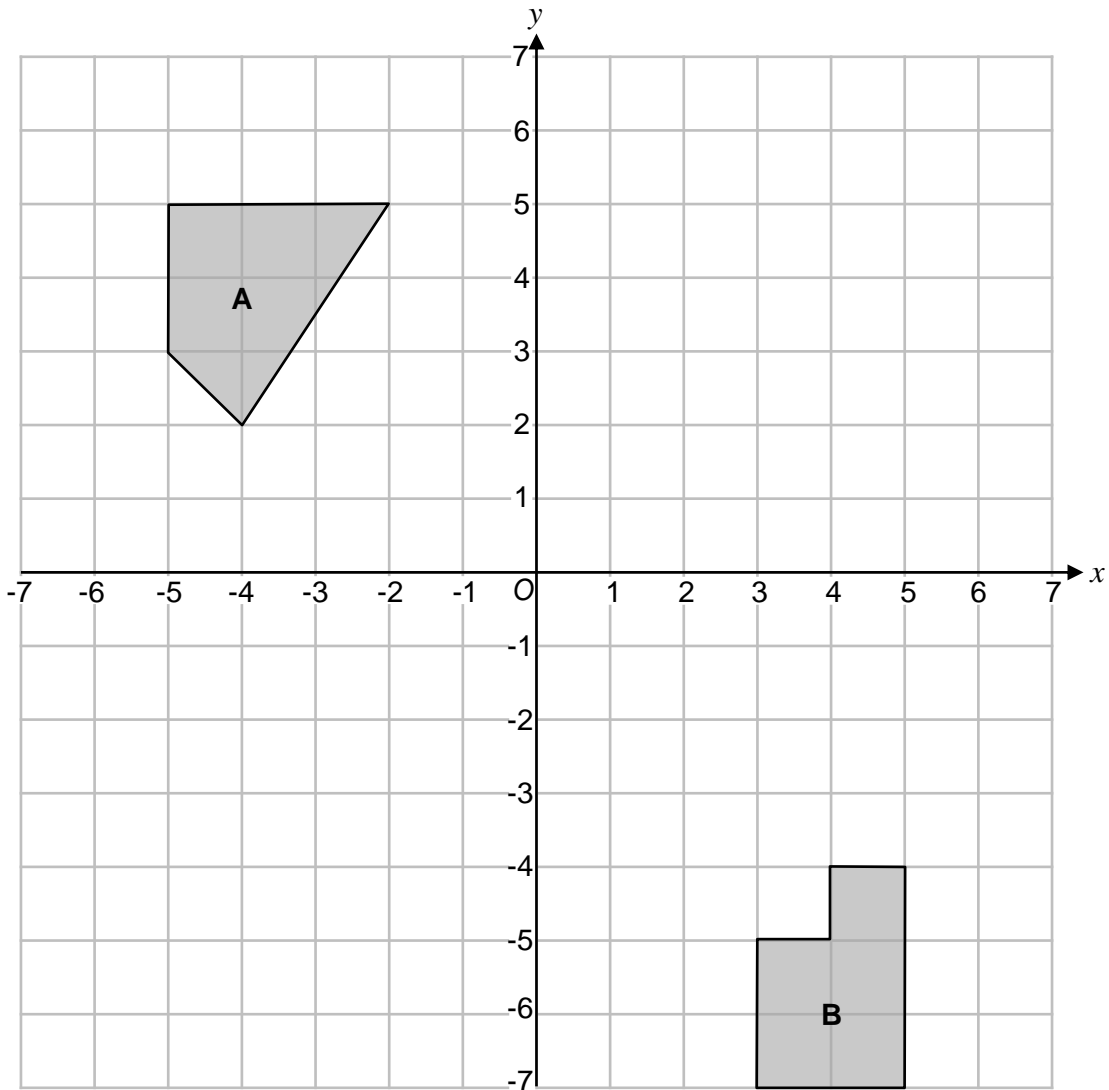
1 (a) Rotate shape **A**  $180^\circ$  about  $(0, 0)$  [2 marks]  
Label the image shape **C**.

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





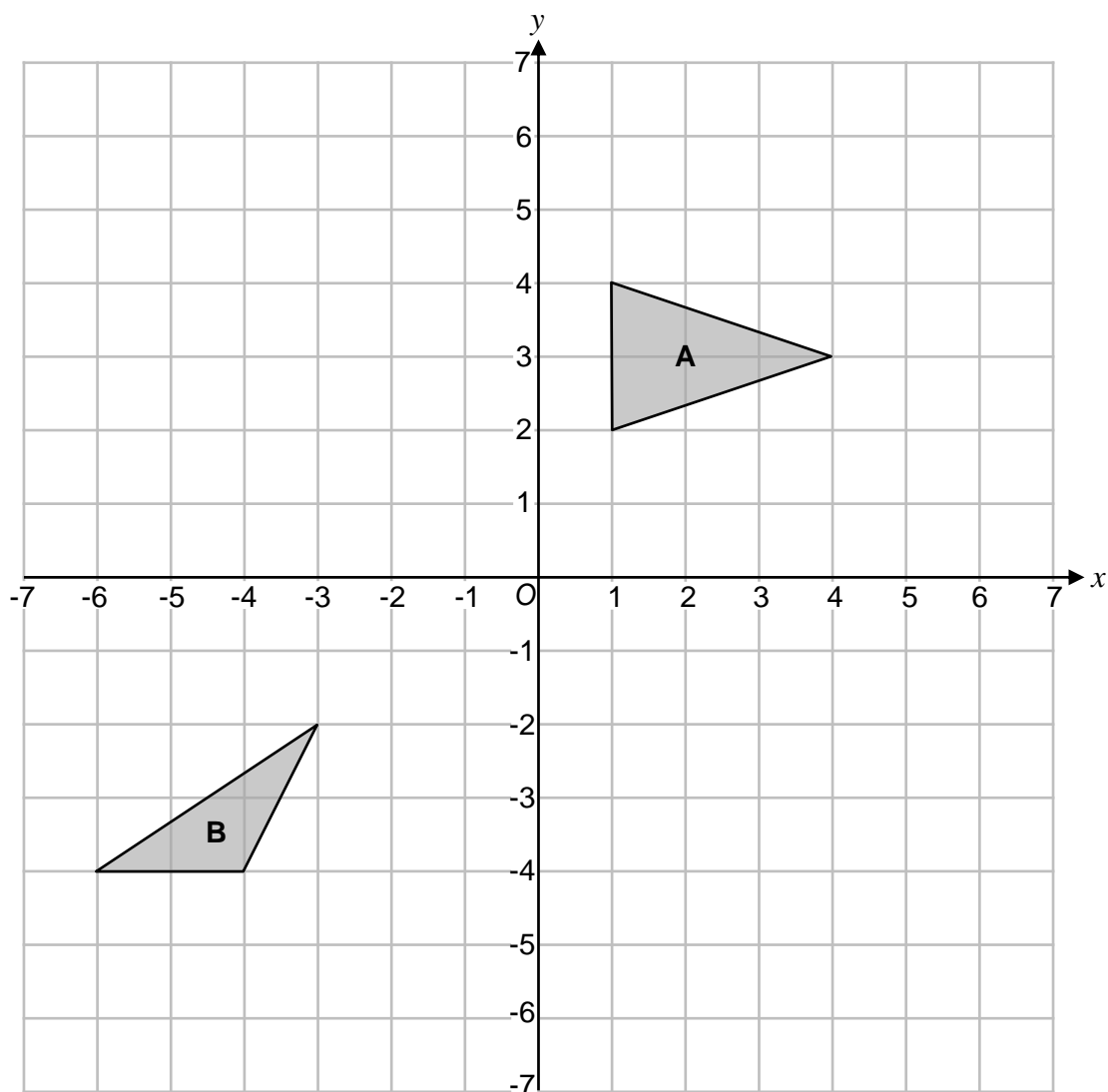
2 Shape **A** and Shape **B** are shown on the grid below.



- 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.



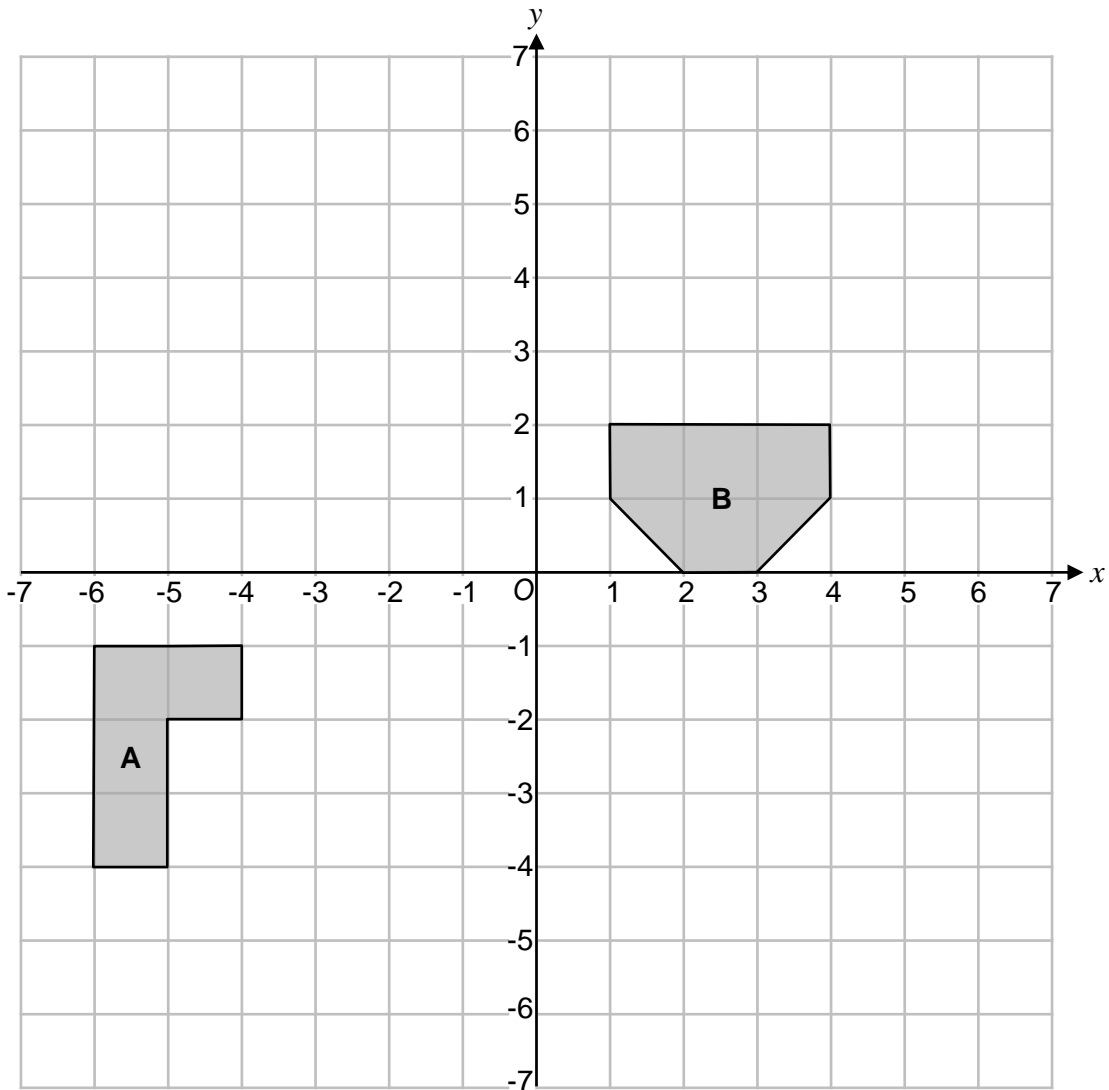
3 (a) Rotate shape **A**  $90^\circ$  clockwise about  $(1, 0)$  [2 marks]  
Label the image shape **C**.

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.

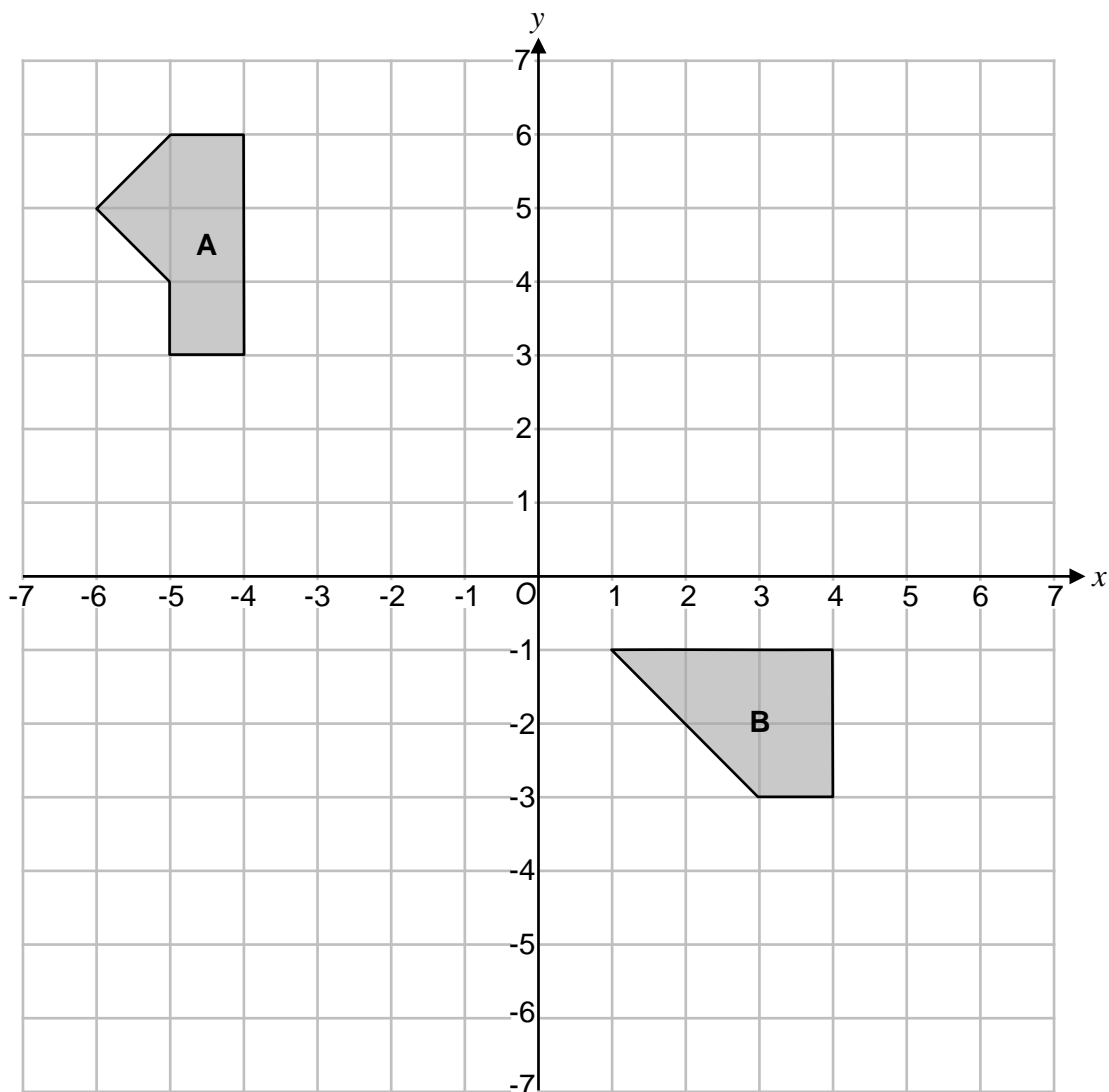


4 (a) Rotate shape **A**  $90^\circ$  clockwise about  $(-1, 1)$  [2 marks]  
Label the image shape **C**.

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.



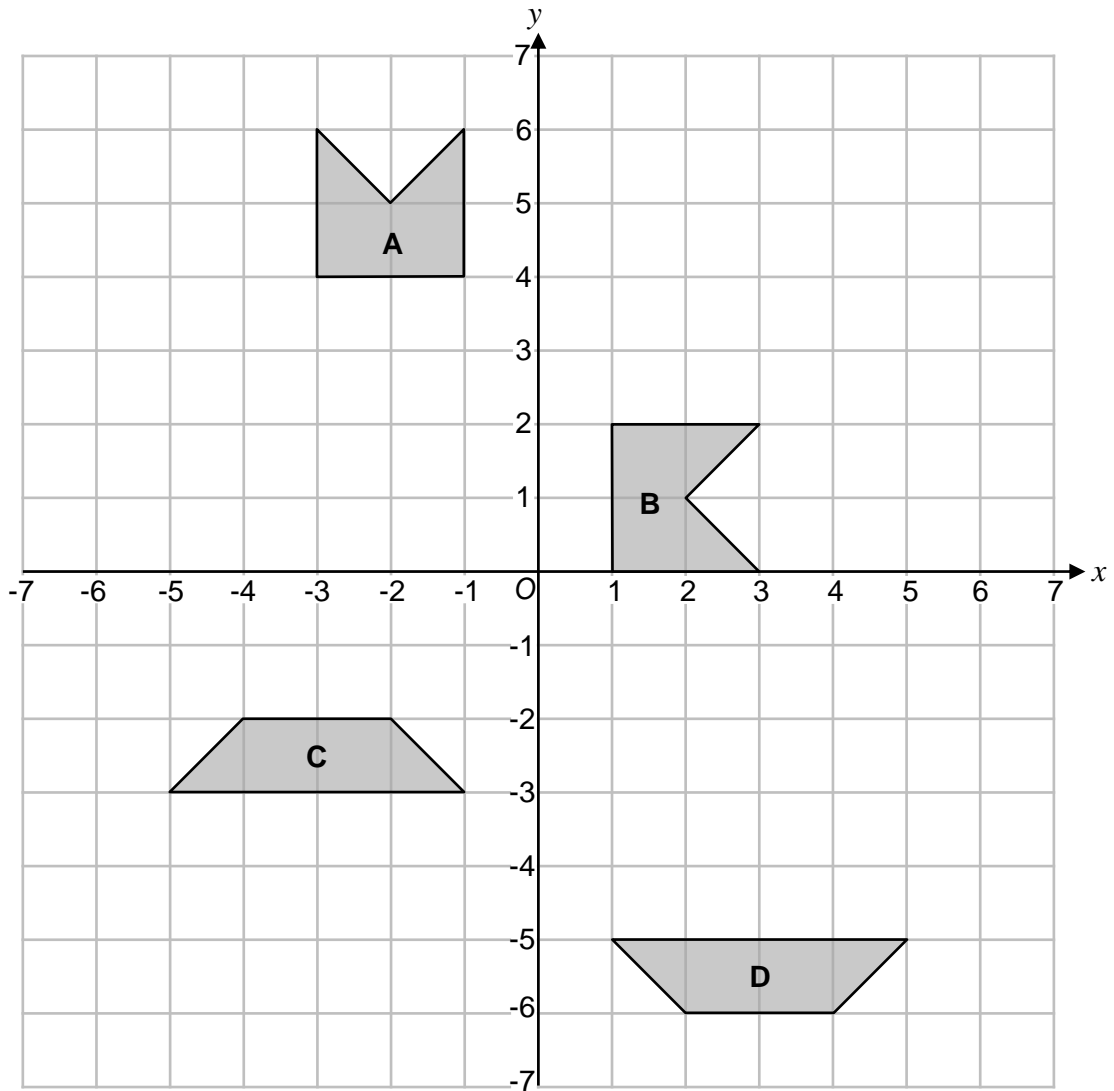
5 (a) Rotate shape **A**  $180^\circ$  about  $(-4, 0)$  [2 marks]  
Label the image shape **C**.

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]

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

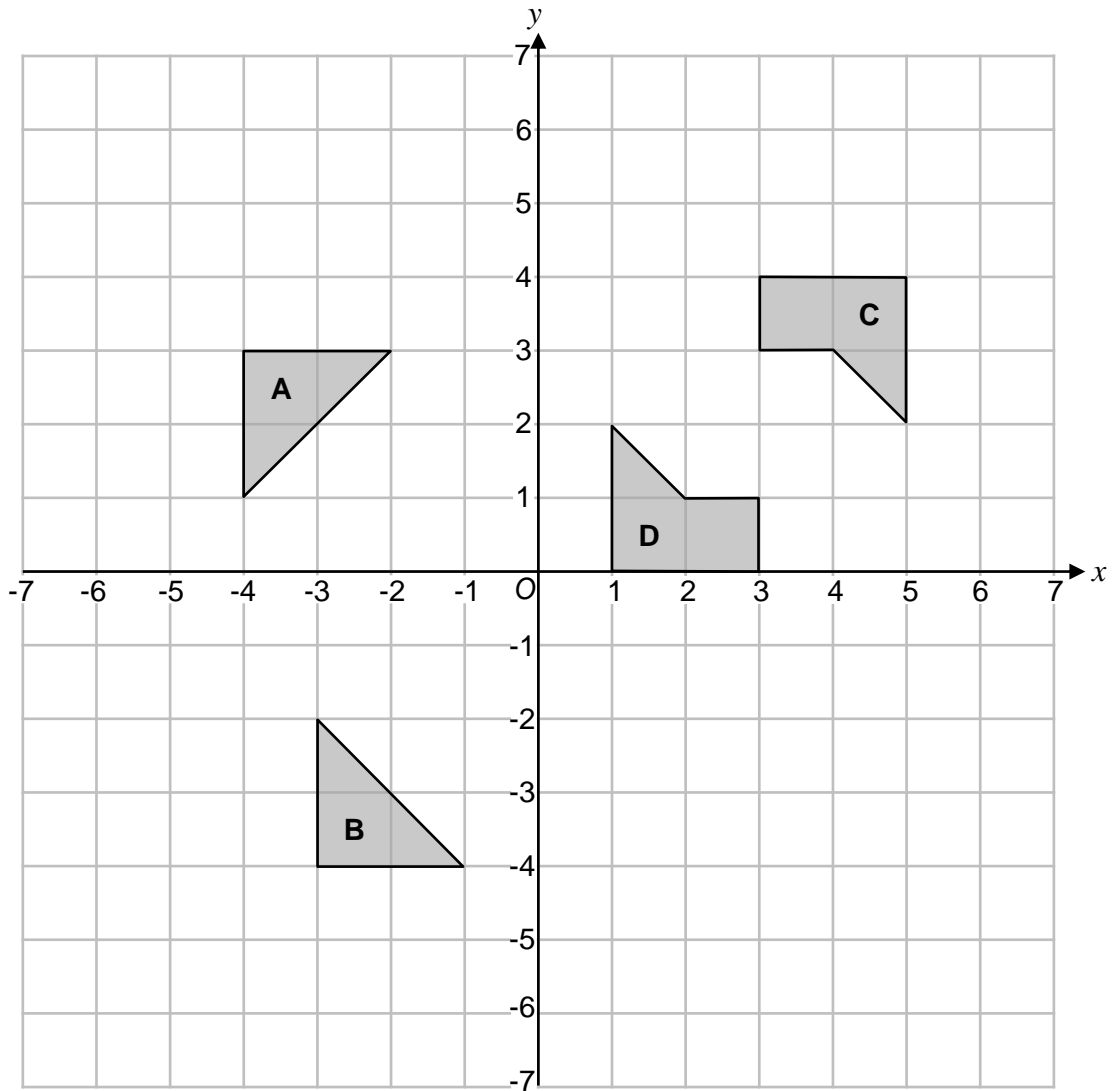
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7



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

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

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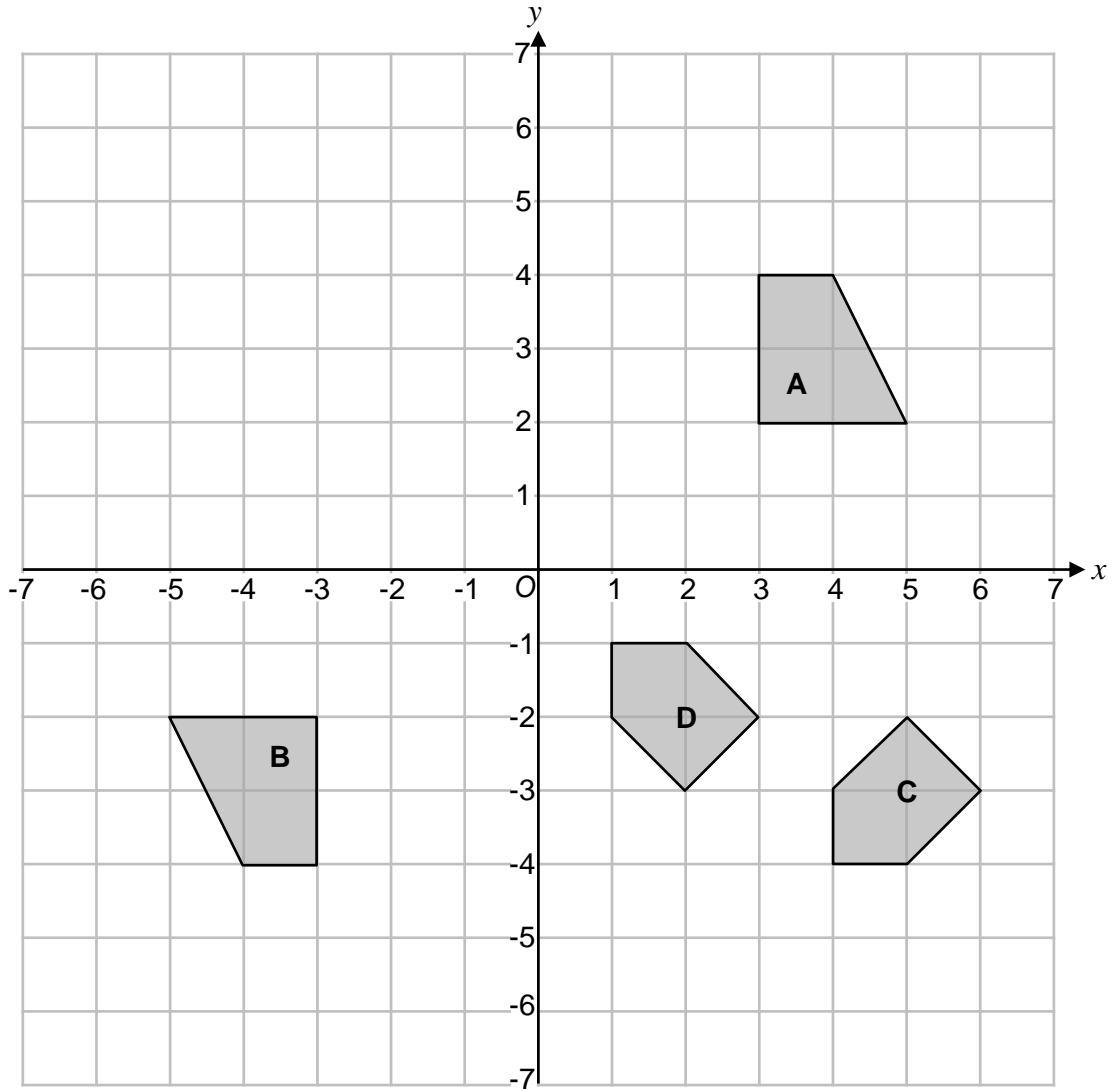


Turn over ►





8



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

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

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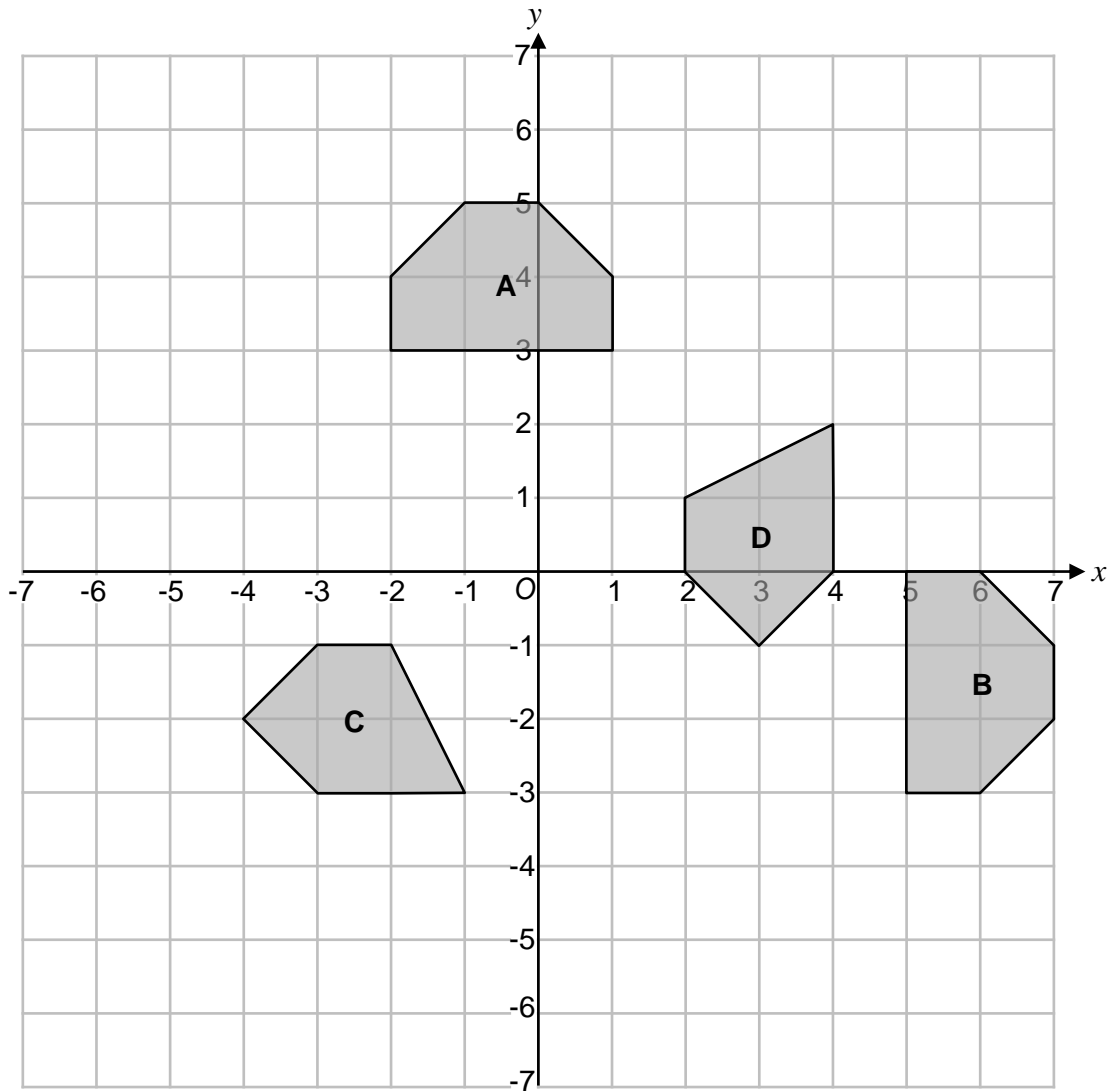
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9



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

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

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