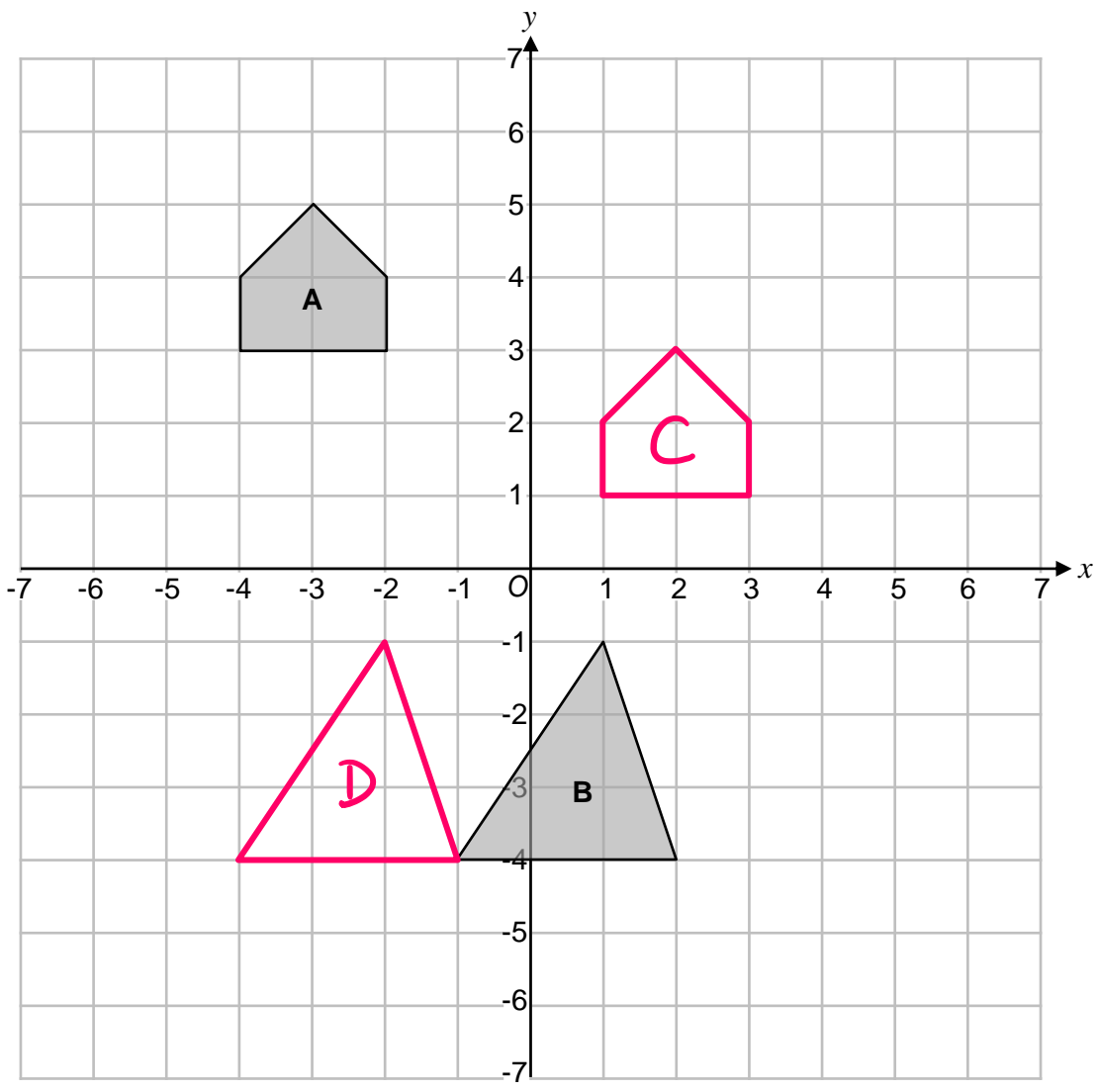




Translations

← REVISE THIS TOPIC

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

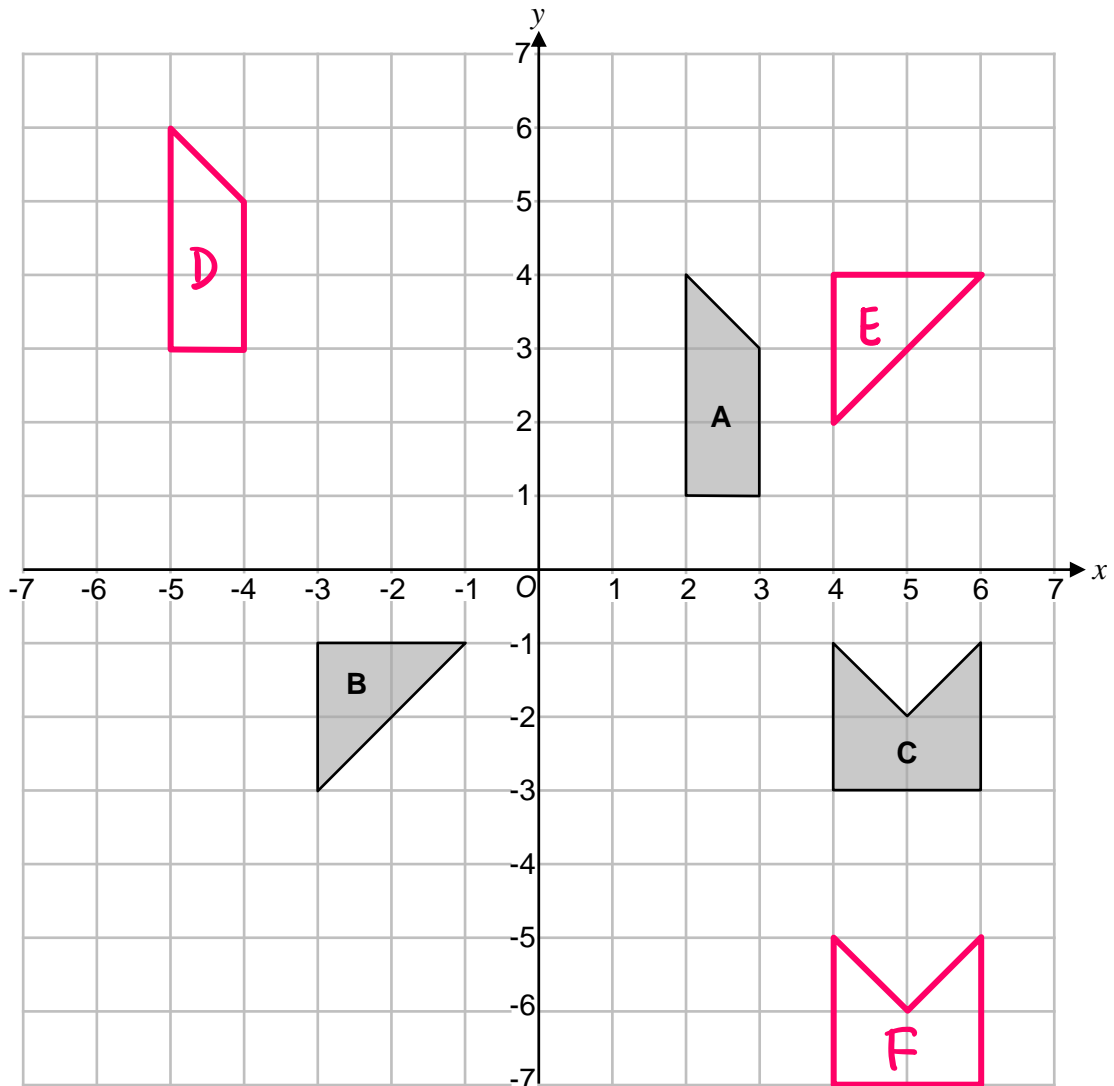


1 (a) Translate shape **A** by the vector $\begin{pmatrix} 5 \\ -2 \end{pmatrix}$ [2 marks]
 Label the image shape **C**.

1 (b) Translate shape **B** by the vector $\begin{pmatrix} -3 \\ 0 \end{pmatrix}$ [2 marks]
 Label the image shape **D**.



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



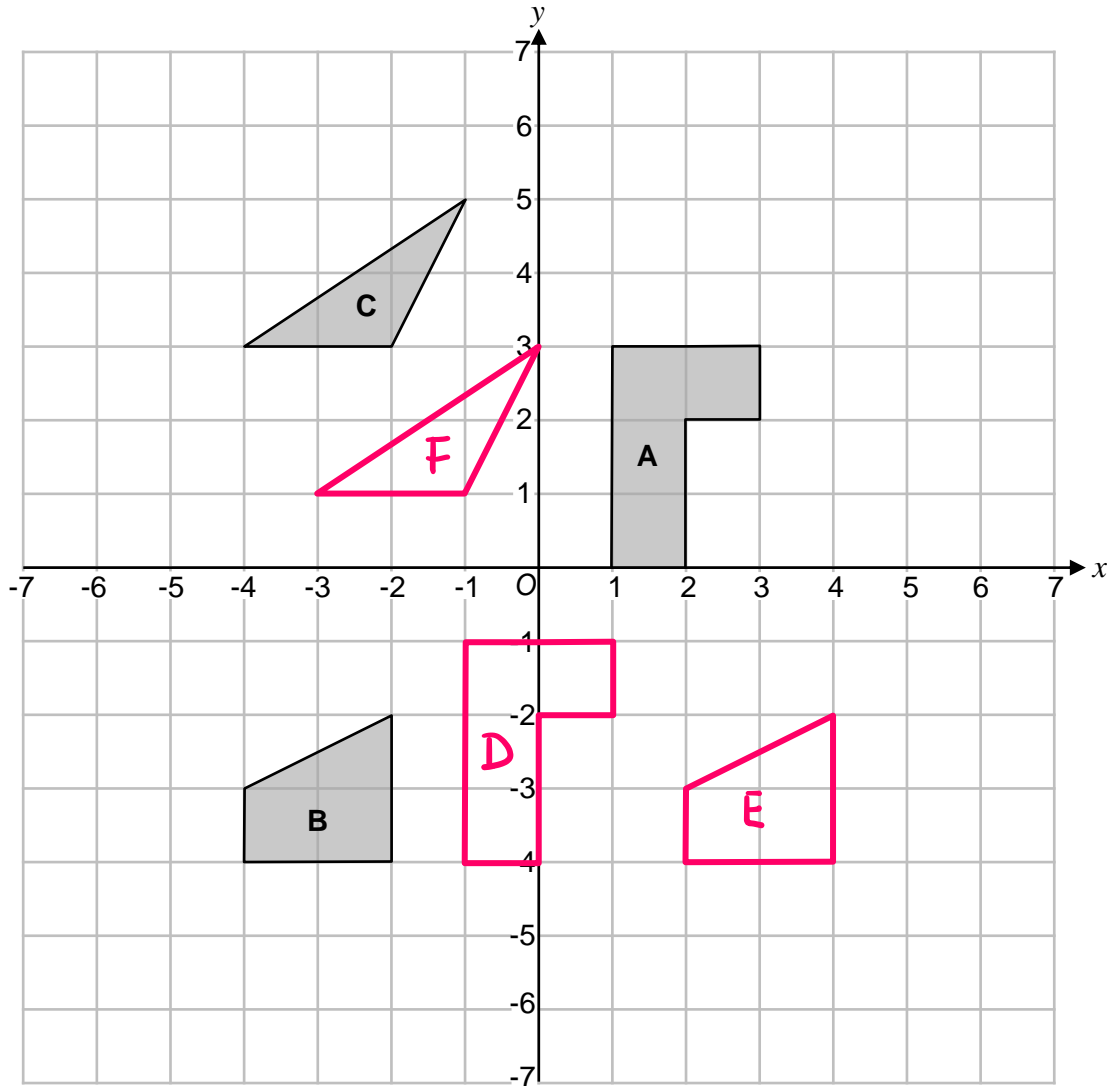
2 (a) Translate shape **A** by the vector $\begin{pmatrix} -7 \\ 2 \end{pmatrix}$ [2 marks]
Label the image shape **D**.

2 (b) Translate shape **B** by the vector $\begin{pmatrix} 7 \\ 5 \end{pmatrix}$ [2 marks]
Label the image shape **E**.

2 (c) Translate shape **C** by the vector $\begin{pmatrix} 0 \\ -4 \end{pmatrix}$ [2 marks]
Label the image shape **F**.



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



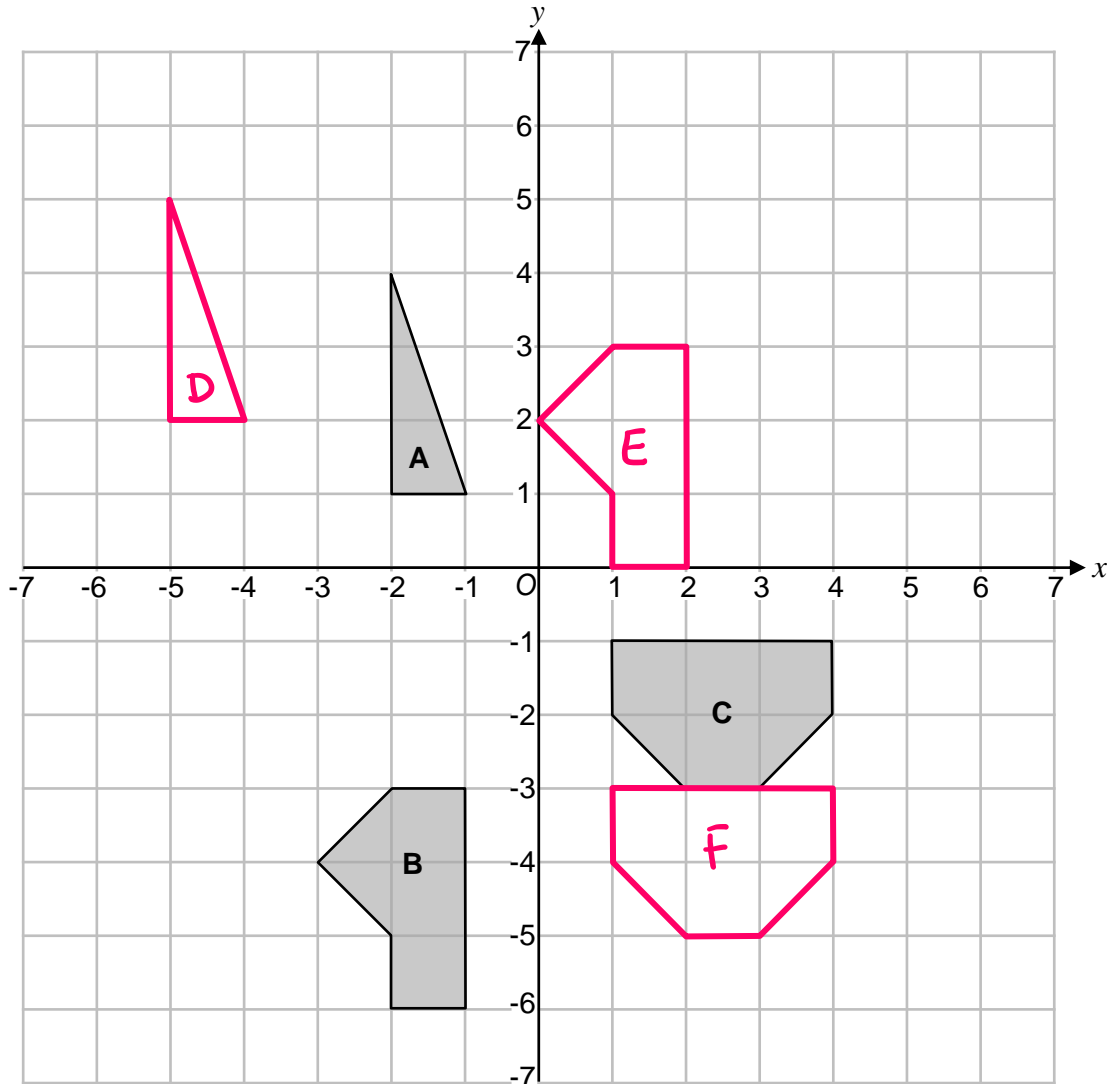
3 (a) Translate shape **A** by the vector $\begin{pmatrix} -2 \\ -4 \end{pmatrix}$ [2 marks]
Label the image shape **D**.

3 (b) Translate shape **B** by the vector $\begin{pmatrix} 6 \\ 0 \end{pmatrix}$ [2 marks]
Label the image shape **E**.

3 (c) Translate shape **C** by the vector $\begin{pmatrix} 1 \\ -2 \end{pmatrix}$ [2 marks]
Label the image shape **F**.



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



4 (a) Translate shape **A** by the vector $\begin{pmatrix} -3 \\ 1 \end{pmatrix}$ [2 marks]
Label the image shape **D**.

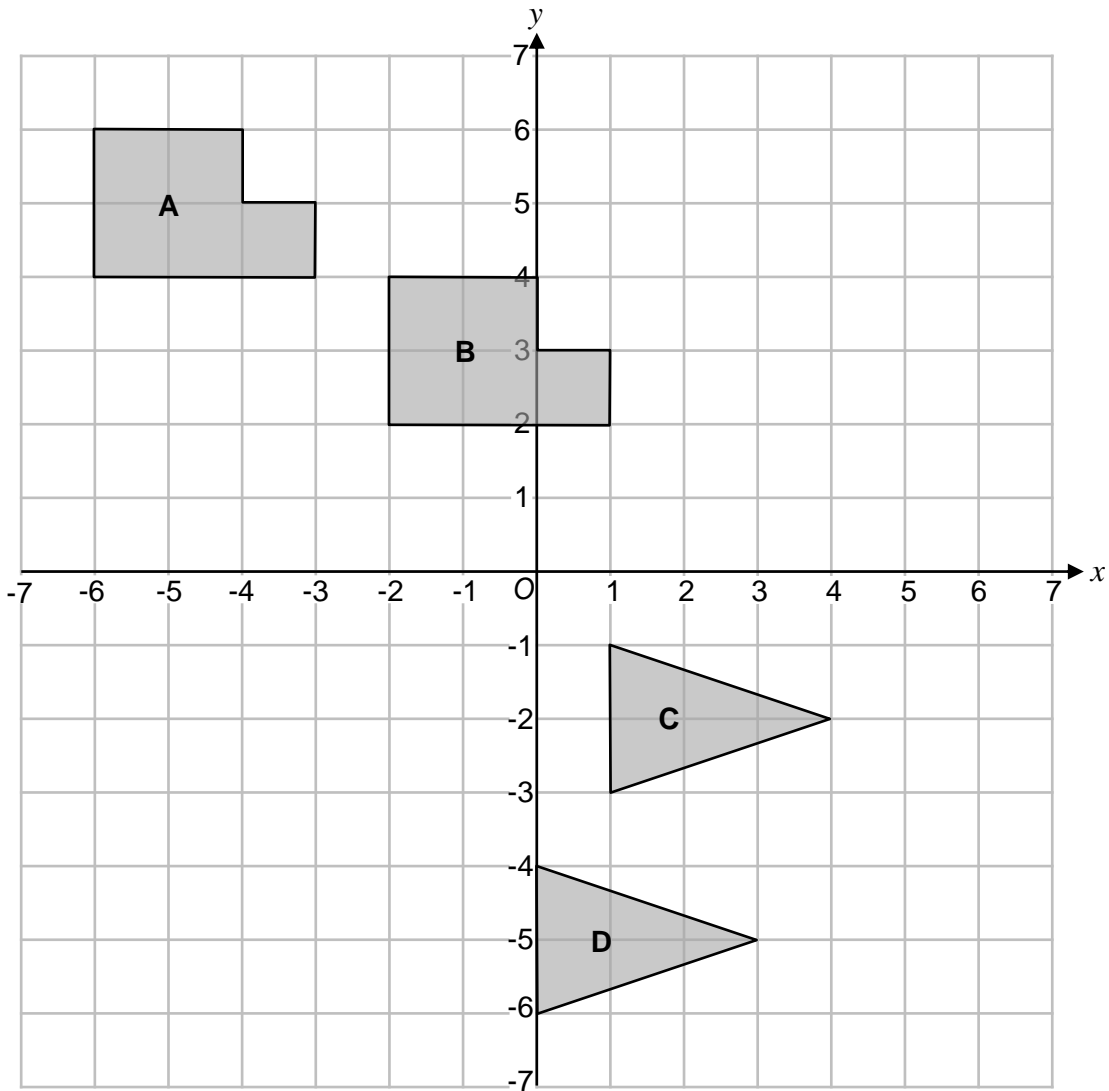
4 (b) Translate shape **B** by the vector $\begin{pmatrix} 3 \\ 6 \end{pmatrix}$ [2 marks]
Label the image shape **E**.

4 (c) Translate shape **C** by the vector $\begin{pmatrix} 0 \\ -2 \end{pmatrix}$ [2 marks]
Label the image shape **F**.





5



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

Translation by the vector $\begin{pmatrix} 4 \\ -2 \end{pmatrix}$

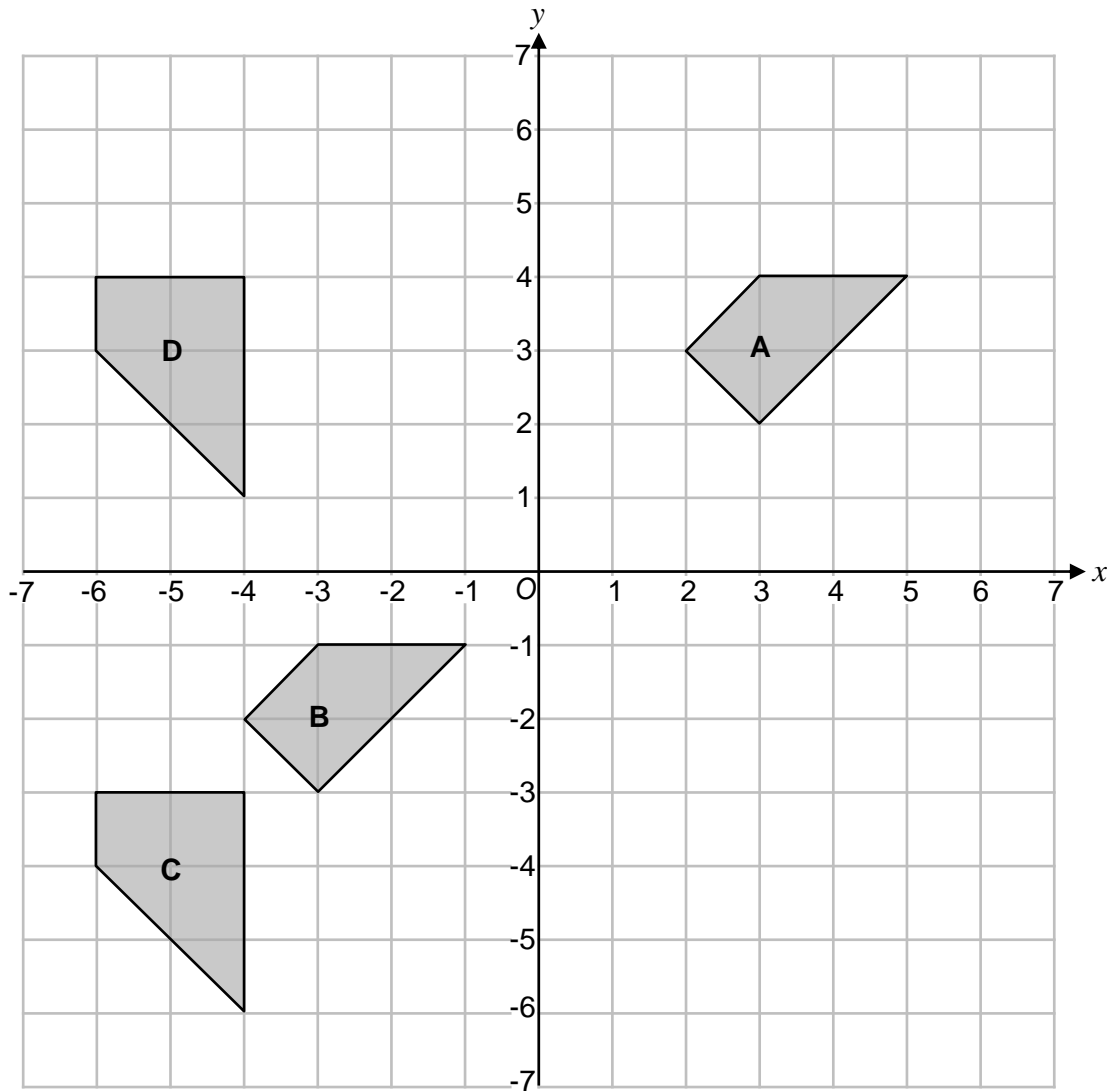
5 (b) Describe fully the single transformation that maps shape C onto shape D. [2 marks]

Translation by the vector $\begin{pmatrix} -1 \\ -3 \end{pmatrix}$





6



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

Translation by the vector $\begin{pmatrix} -6 \\ -5 \end{pmatrix}$

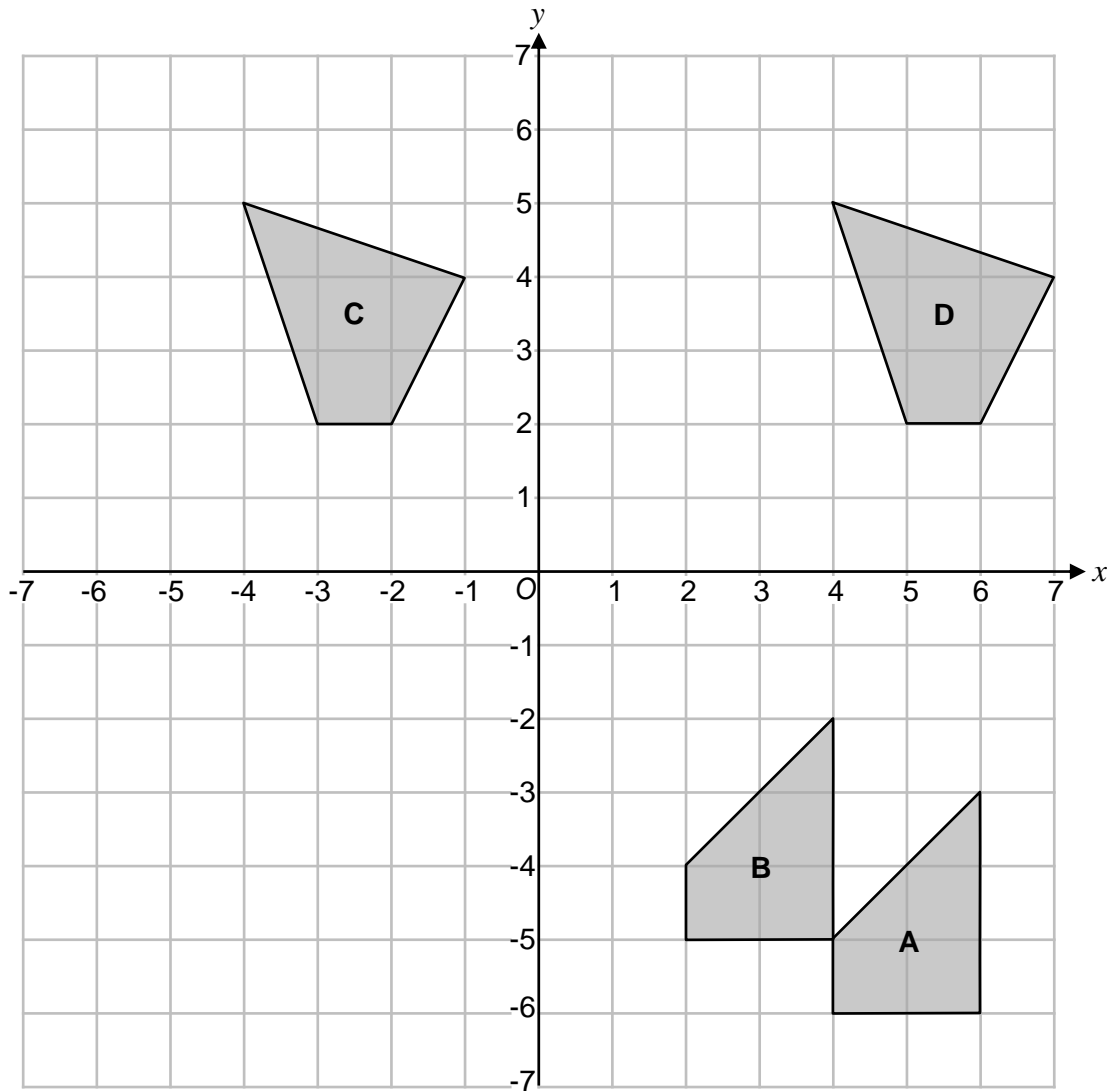
6 (b) Describe fully the single transformation that maps shape C onto shape D. [2 marks]

Translation by the vector $\begin{pmatrix} 0 \\ 7 \end{pmatrix}$





7



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

Translation by the vector $\begin{pmatrix} -2 \\ 1 \end{pmatrix}$

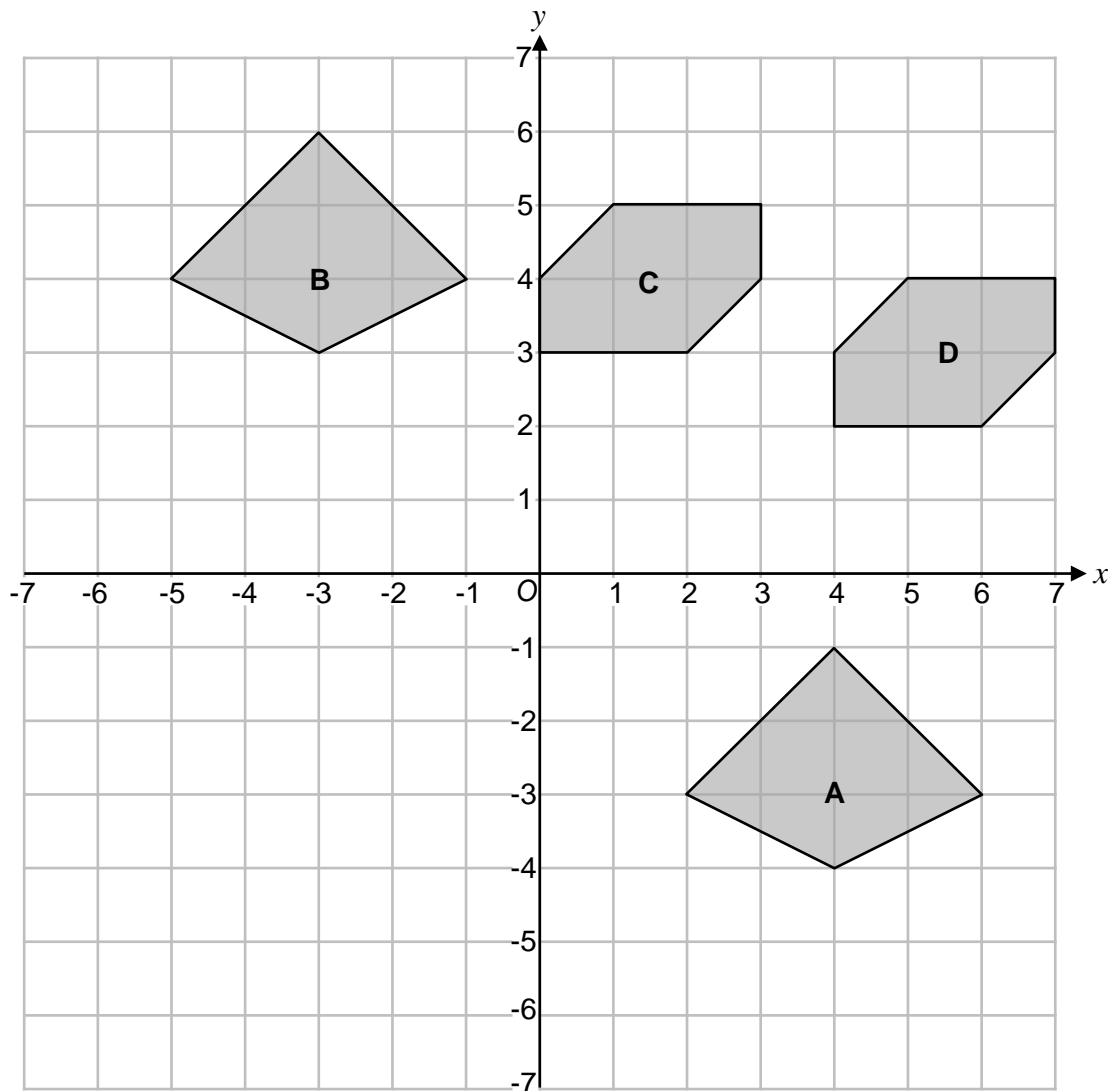
7 (b) Describe fully the single transformation that maps shape C onto shape D. [2 marks]

Translation by the vector $\begin{pmatrix} 8 \\ 0 \end{pmatrix}$





8



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

Translation by the vector $\begin{pmatrix} -7 \\ 7 \end{pmatrix}$

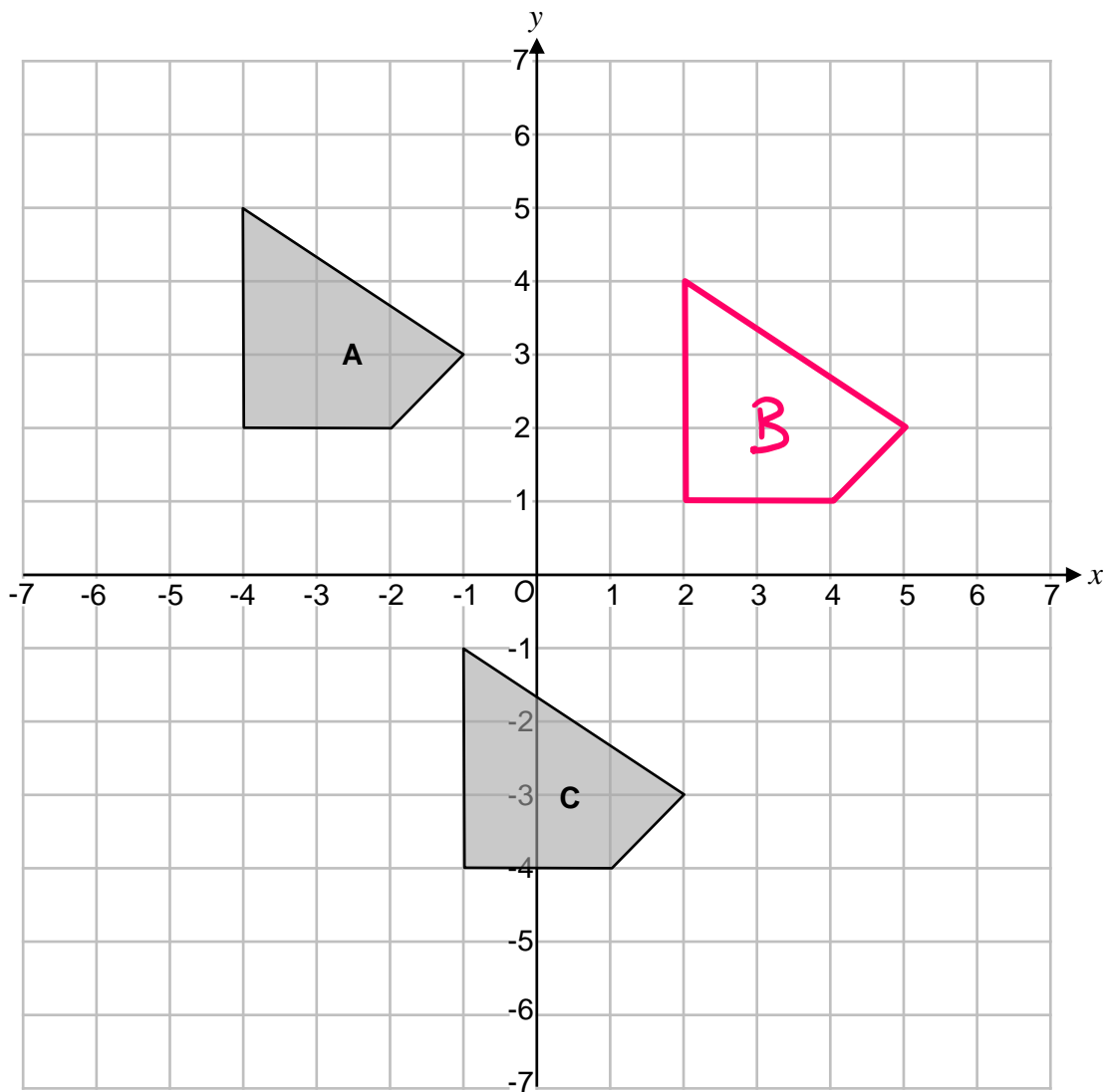
8 (b) Describe fully the single transformation that maps shape C onto shape D. [2 marks]

Translation by the vector $\begin{pmatrix} 4 \\ -1 \end{pmatrix}$





9 Shape **A** and Shape **C** are shown on the grid below.



Shape **A** is translated to shape **B** by the vector $\begin{pmatrix} 6 \\ -1 \end{pmatrix}$

Describe fully the single transformation that maps shape **B** onto shape **C**. [3 marks]

Translation by the vector $\begin{pmatrix} -3 \\ -5 \end{pmatrix}$

