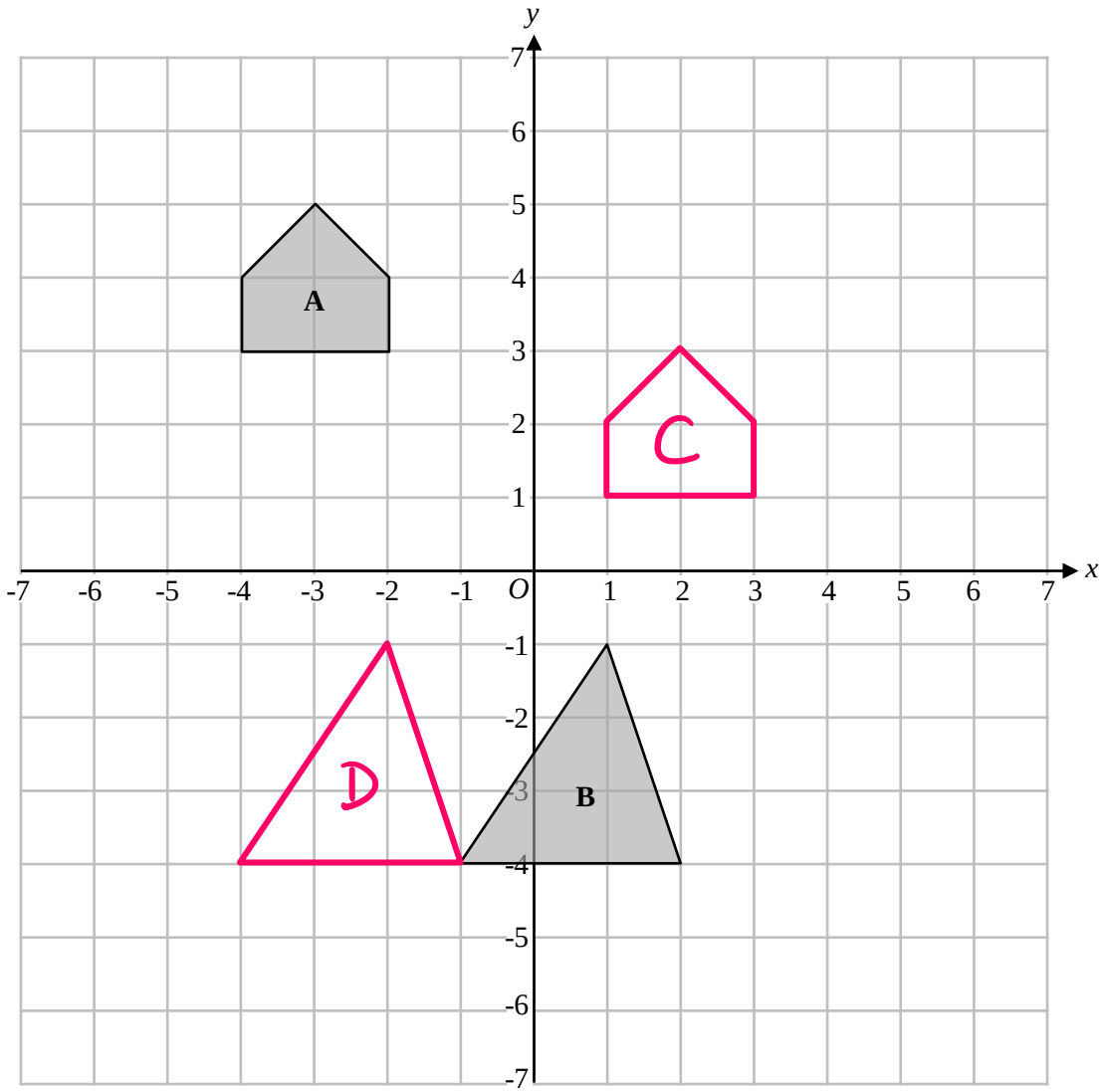
Translations

SCAN ME

REVISE THIS TOPIC

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



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

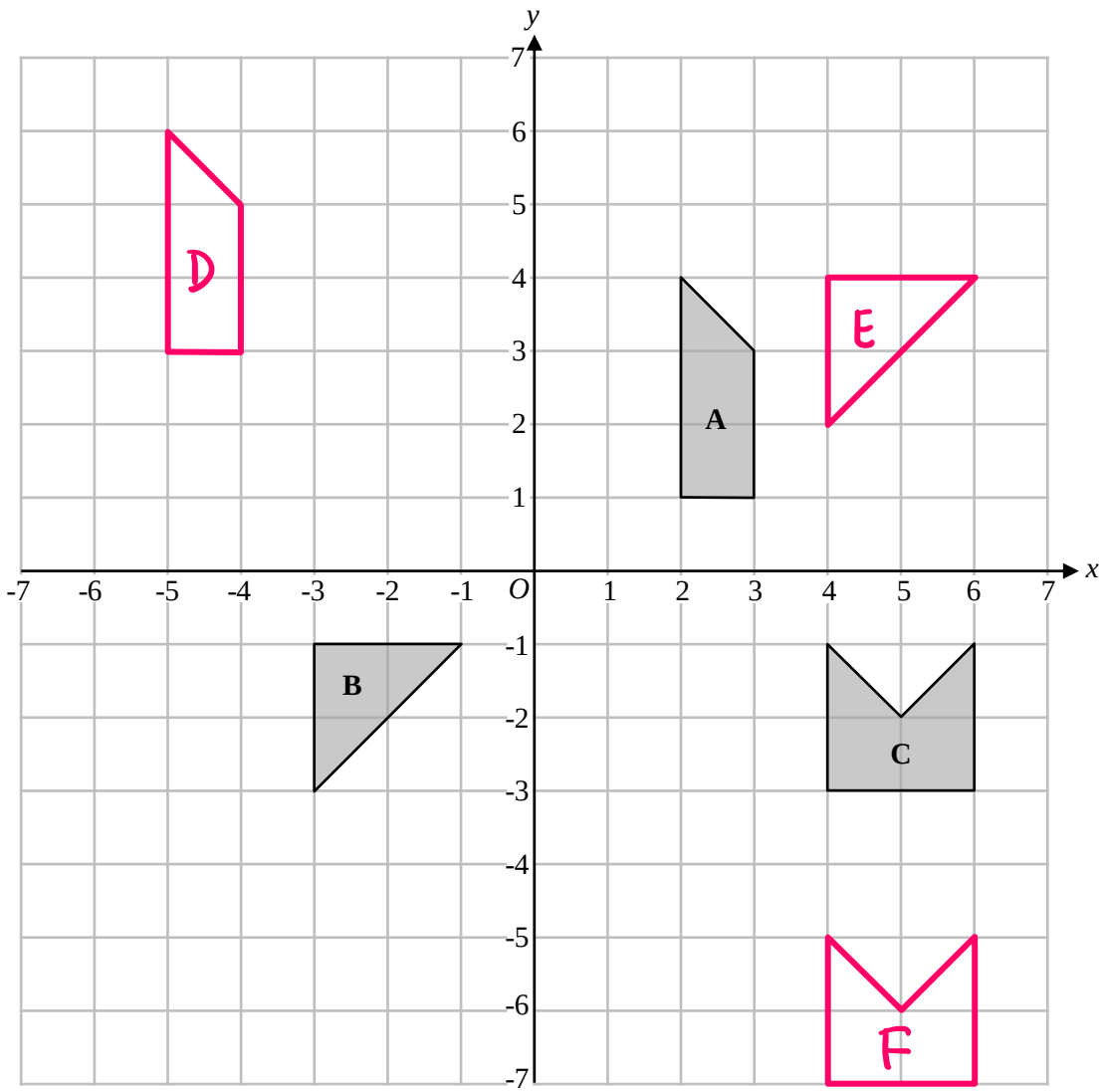
(2)

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

(2)

(Total for Question 1 is 4 marks)

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



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

(2)

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

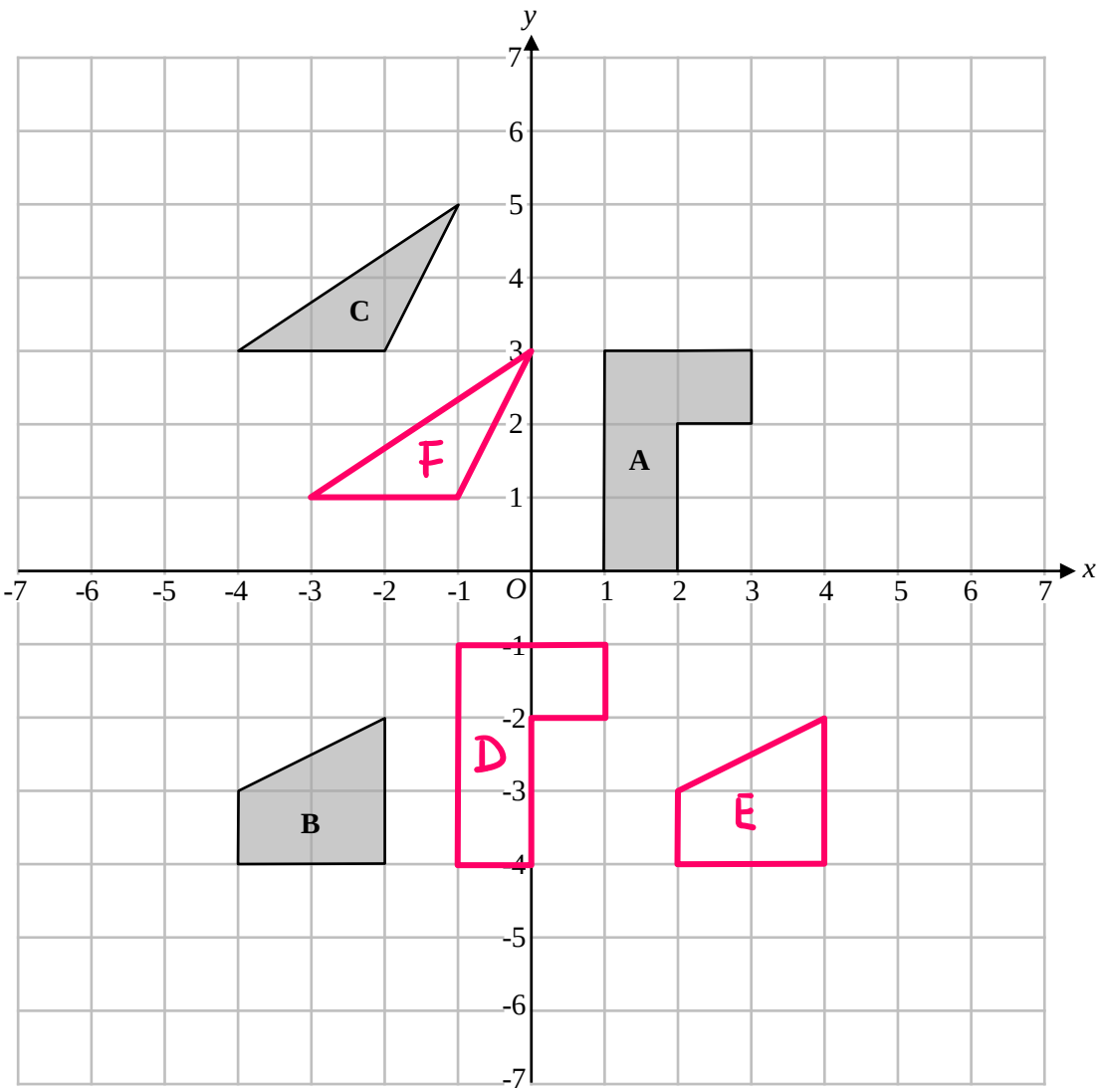
(2)

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

(2)

(Total for Question 2 is 6 marks)

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



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

(2)

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

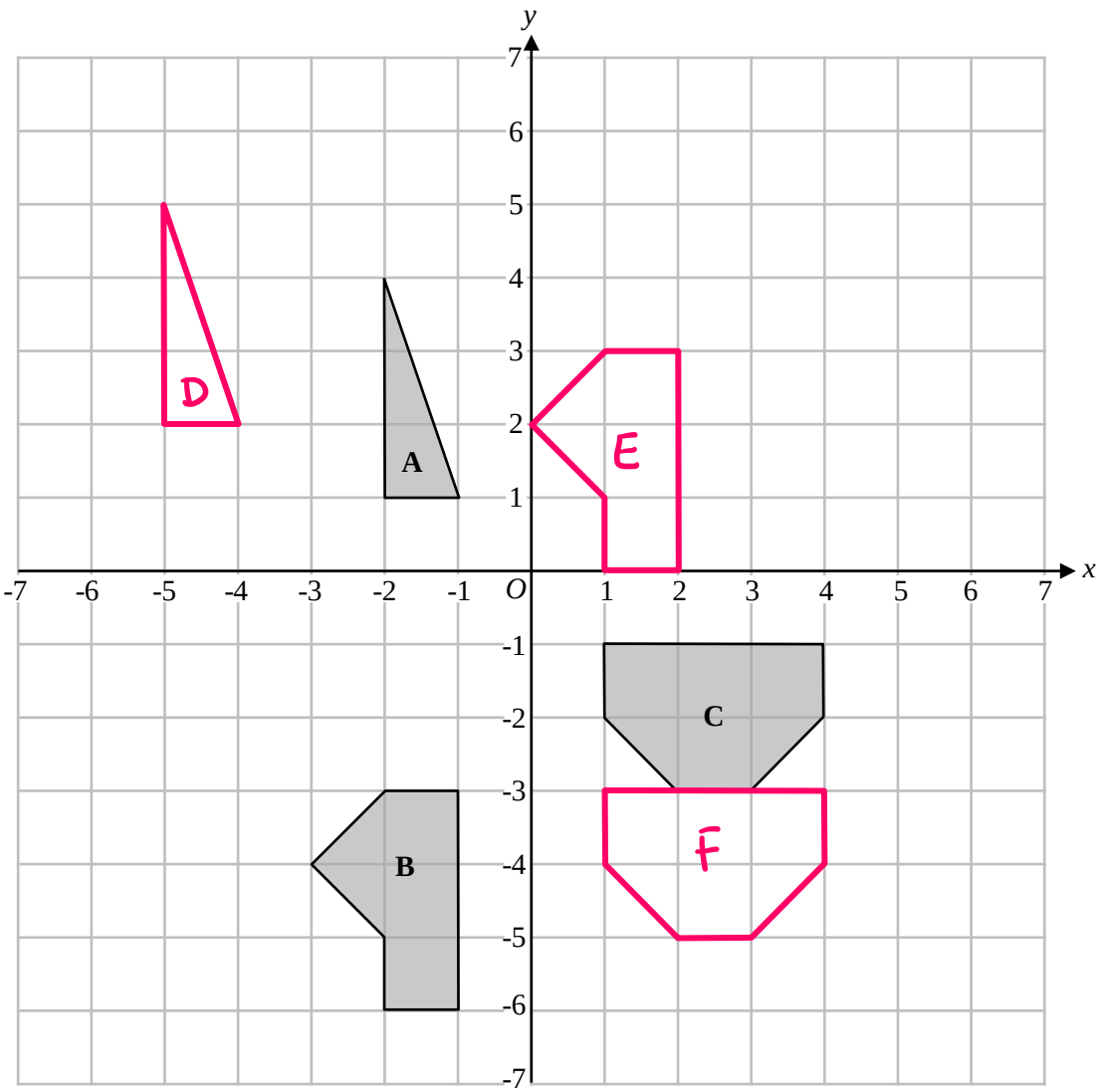
(2)

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

(2)

(Total for Question 3 is 6 marks)

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



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

(2)

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

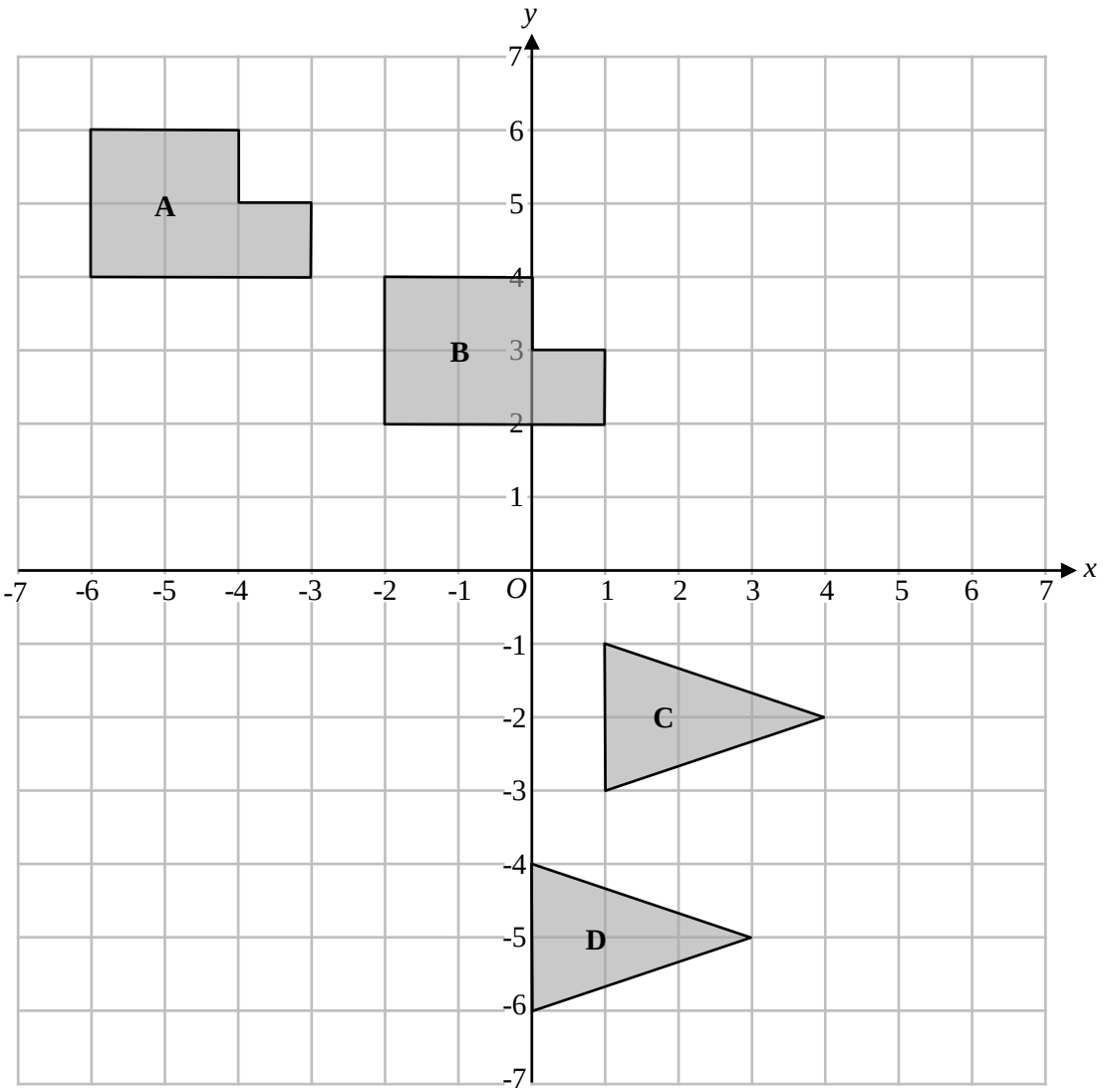
(2)

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

(2)

(Total for Question 4 is 6 marks)

5



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

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

(2)

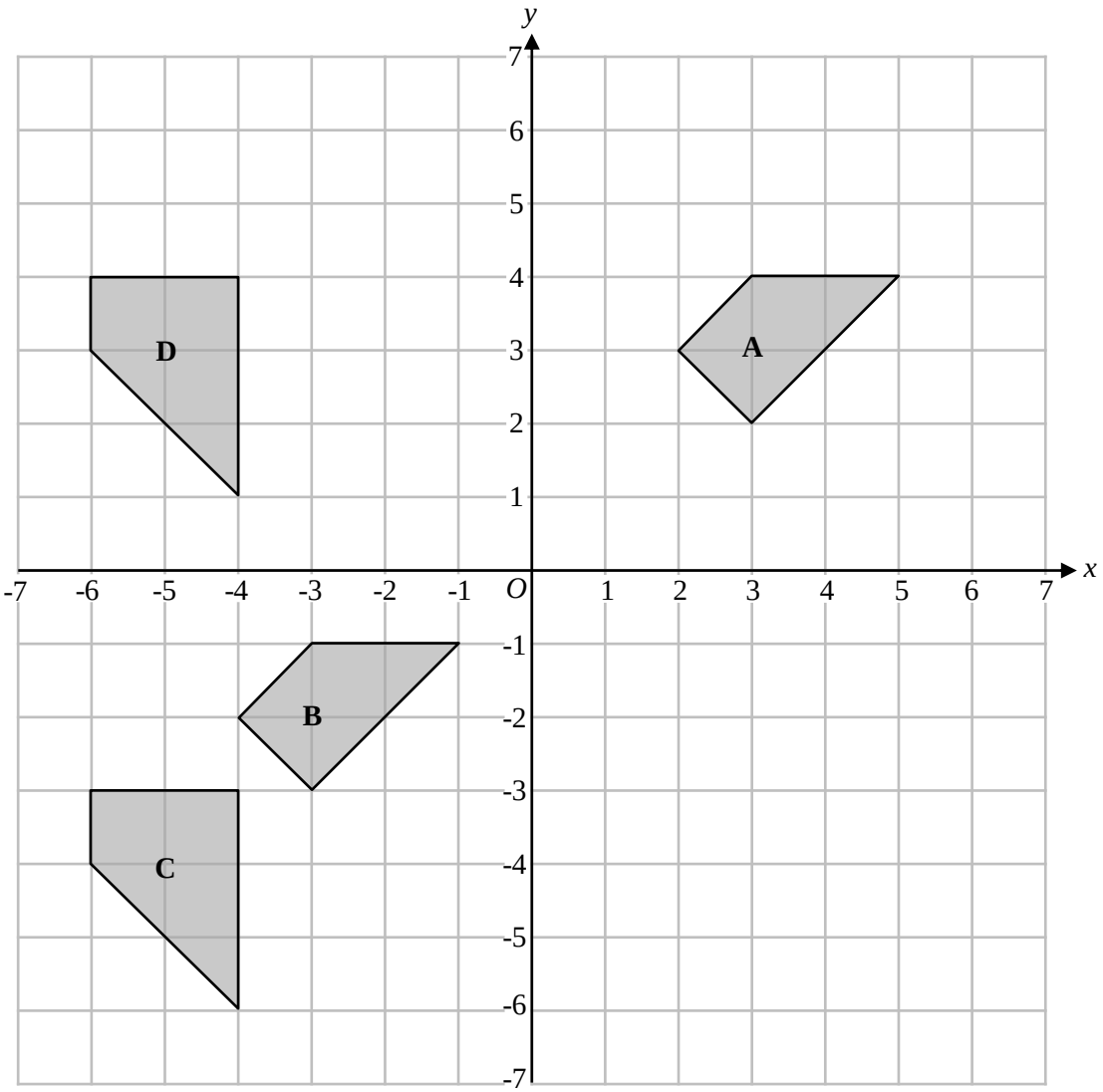
(b) Describe fully the single transformation that maps shape **C** onto shape **D**.

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

(2)

(Total for Question 5 is 4 marks)

6



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

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

(2)

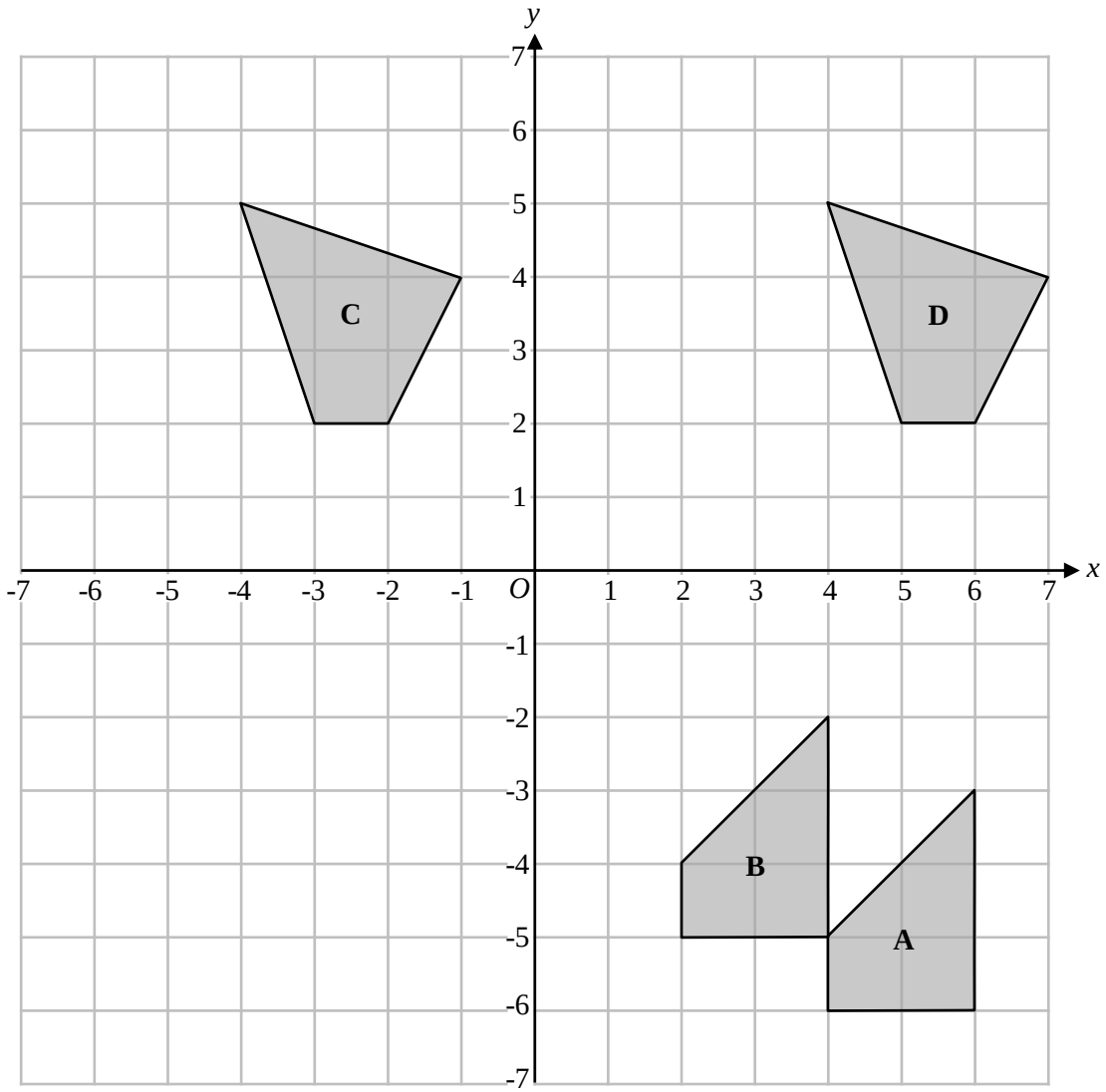
(b) Describe fully the single transformation that maps shape **C** onto shape **D**.

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

(2)

(Total for Question 6 is 4 marks)

7



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

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

(2)

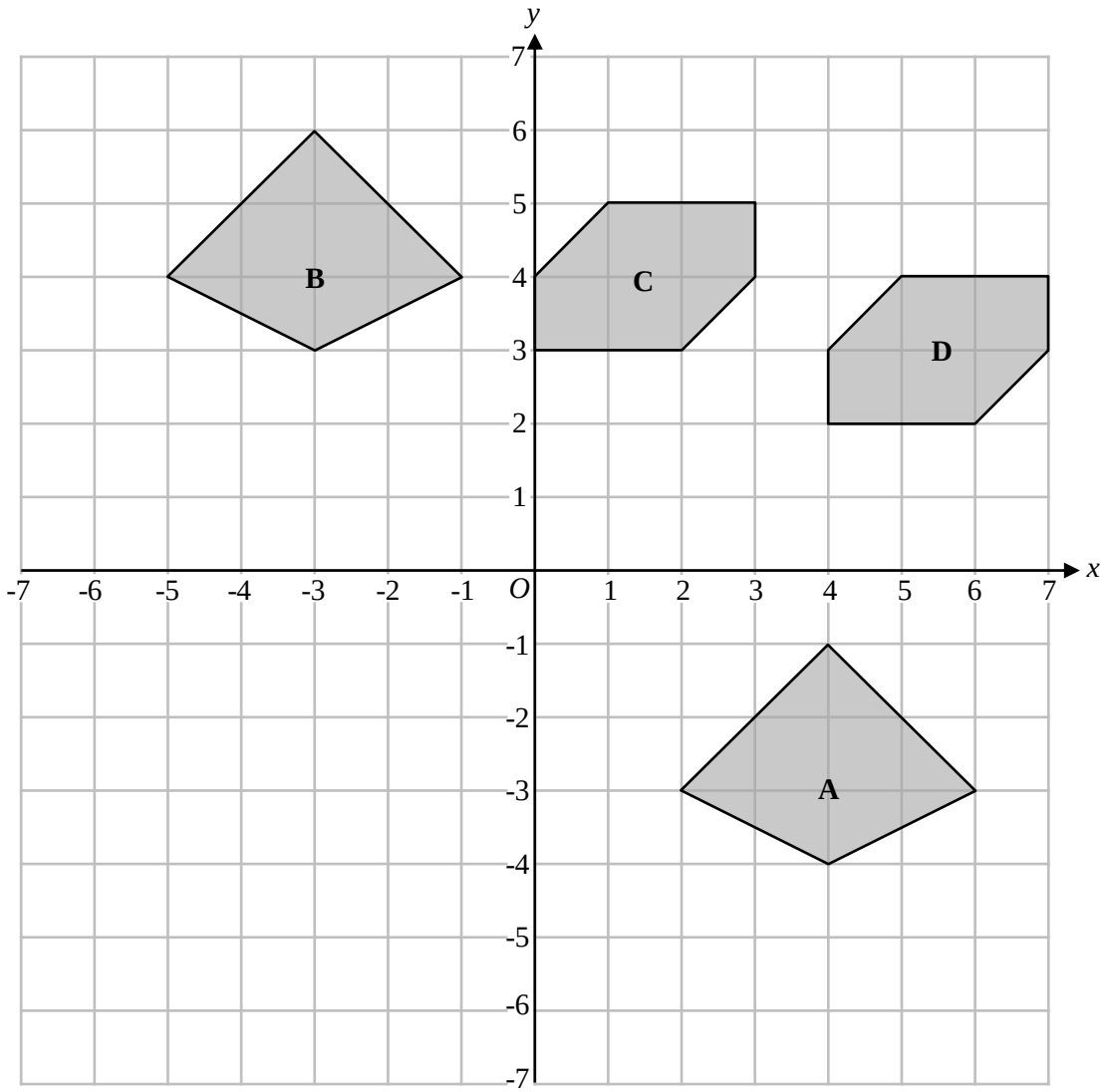
(b) Describe fully the single transformation that maps shape **C** onto shape **D**.

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

(2)

(Total for Question 7 is 4 marks)

8



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

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

(2)

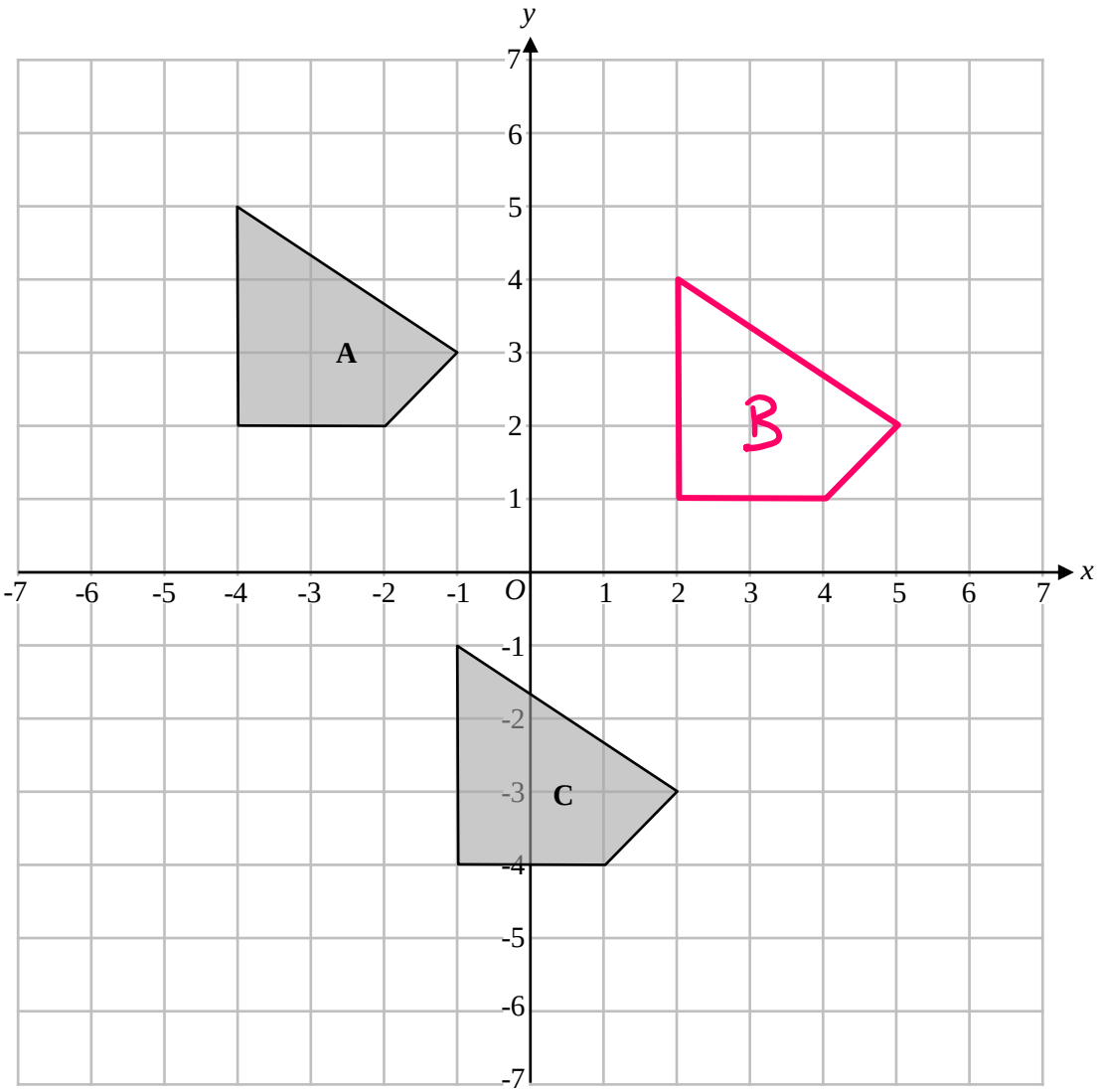
(b) Describe fully the single transformation that maps shape **C** onto shape **D**.

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

(2)

(Total for Question 8 is 4 marks)

9 Shape **A** and Shape **B** 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**.

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

(Total for Question 9 is 3 marks)