



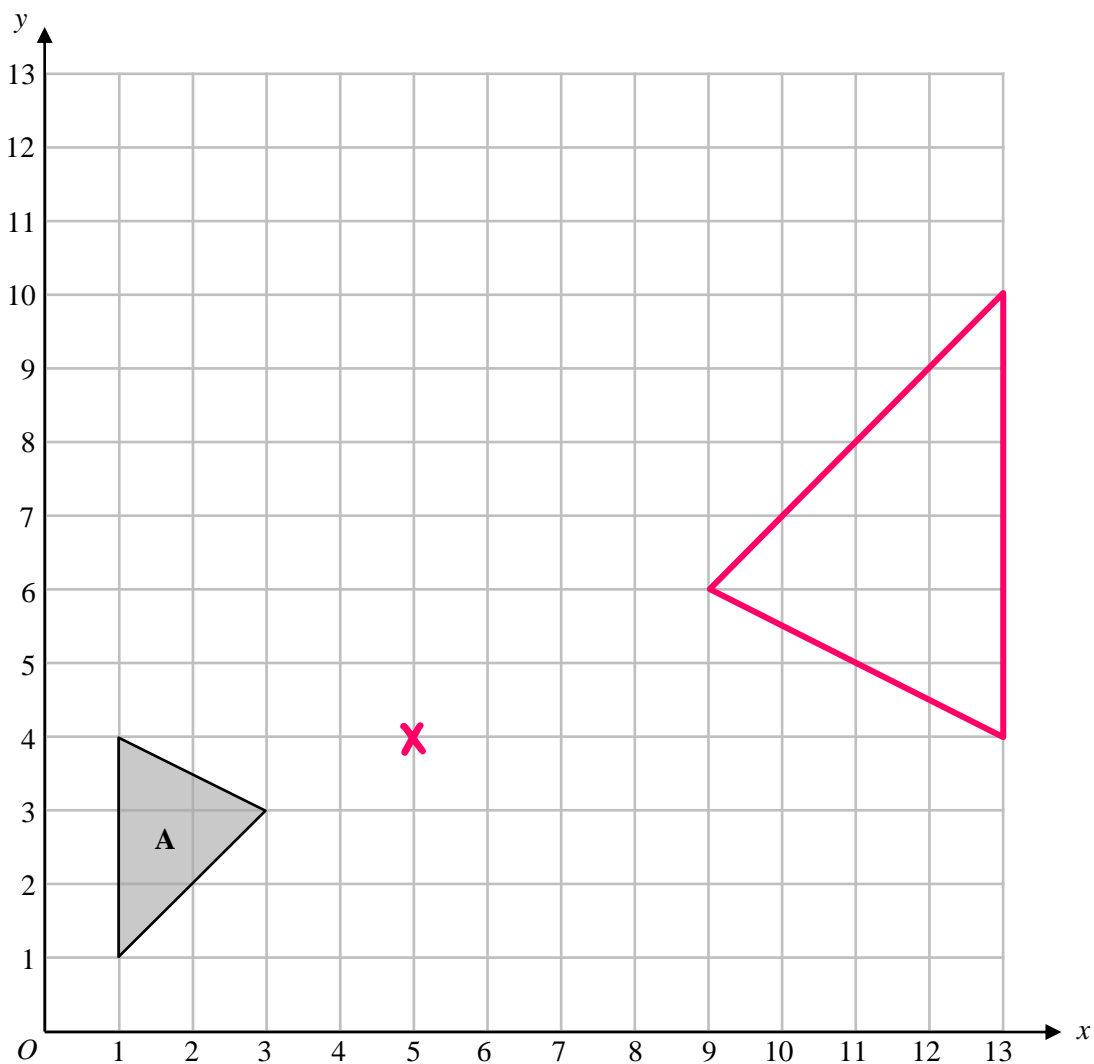
Enlargements (Negative SF)



REVISE THIS TOPIC



1 Enlarge triangle A by scale factor -2 , centre $(5, 4)$



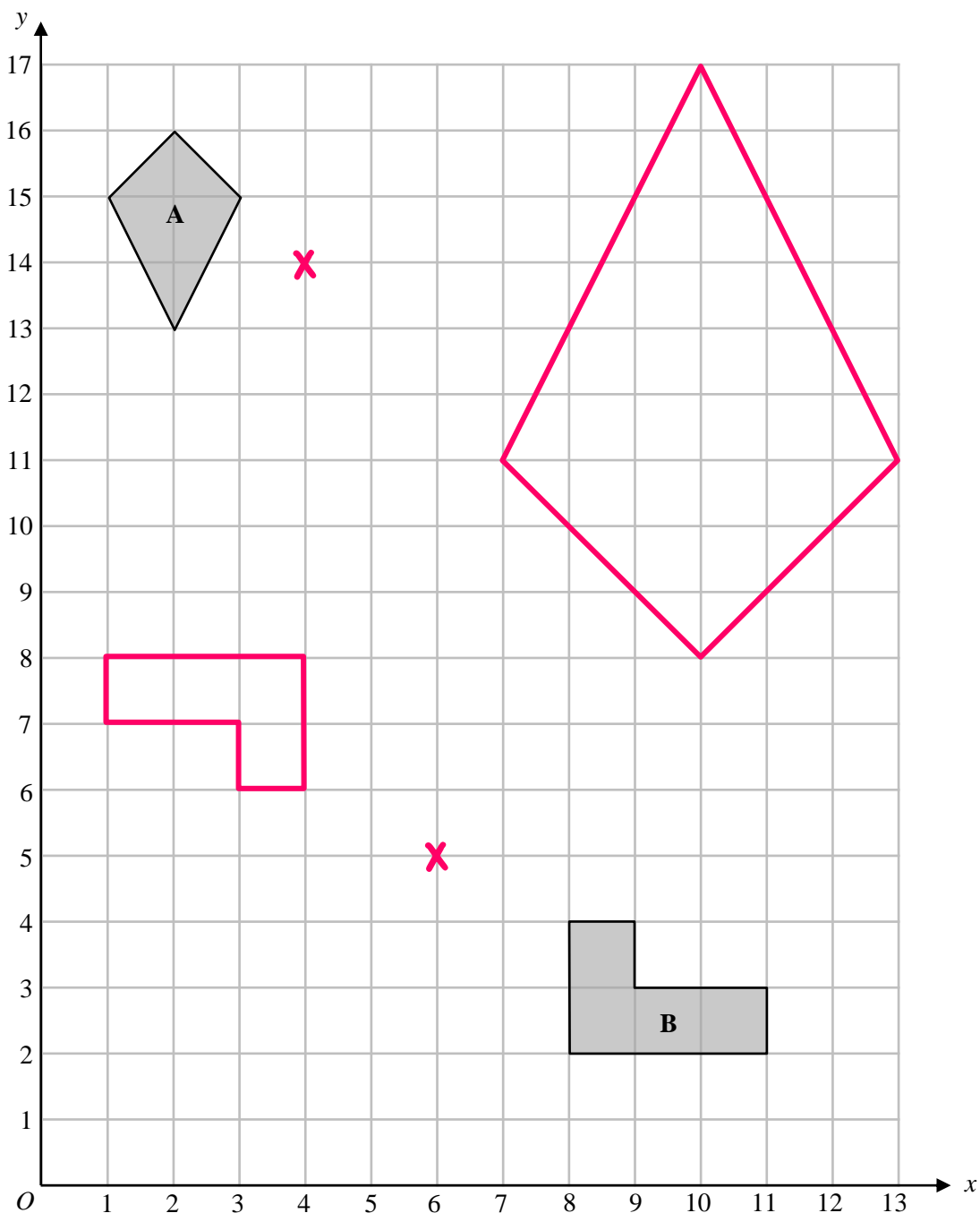
(Total for Question 1 is 2 marks)



1

2 (a) Enlarge shape **A** by scale factor -3 , centre $(4, 14)$ (2)

(b) Enlarge shape **B** by scale factor -1 , centre $(6, 5)$ (2)

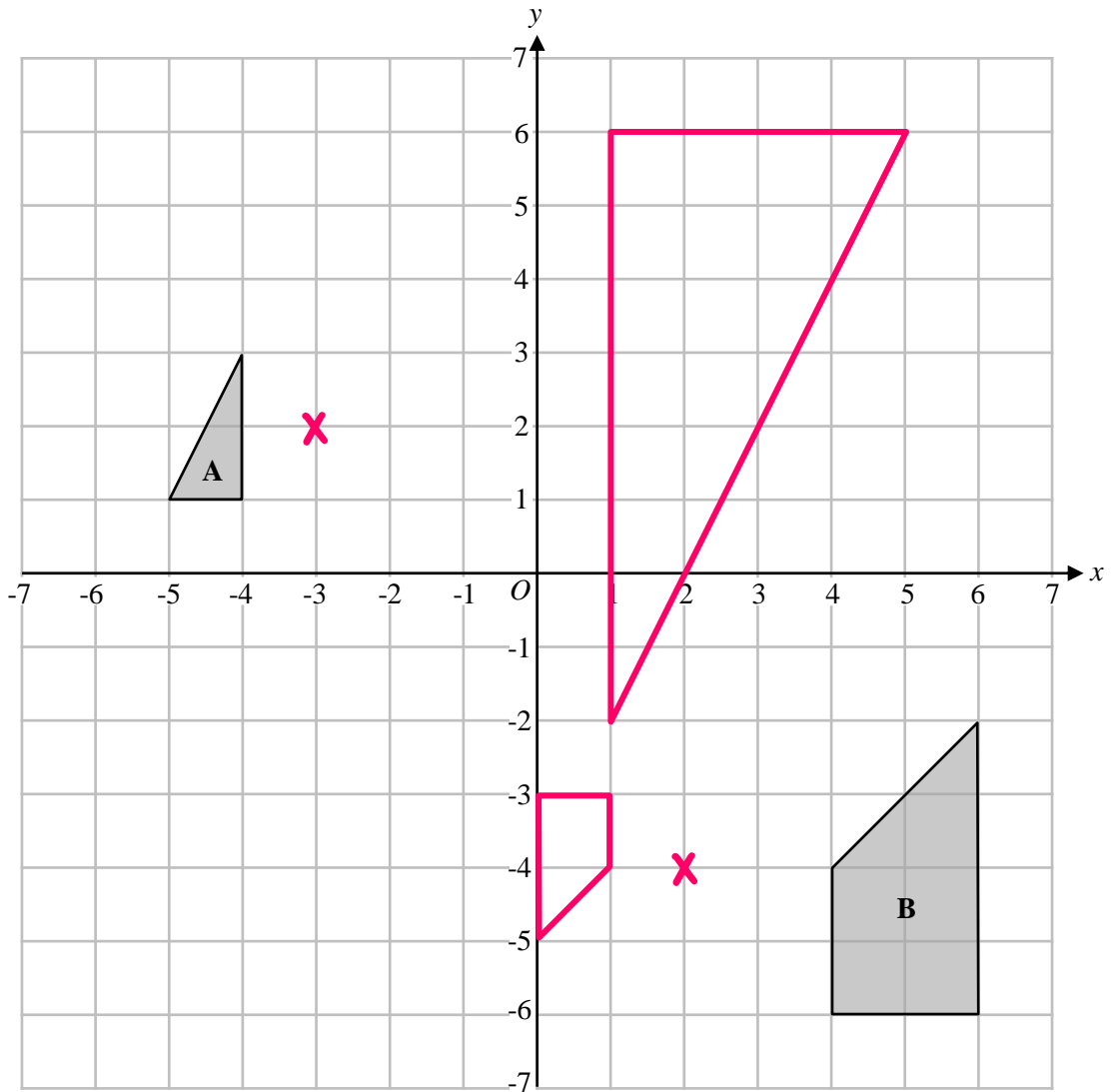


(Total for Question 2 is 4 marks)



3 (a) Enlarge shape **A** by scale factor -4 , centre $(-3, 2)$ (2)

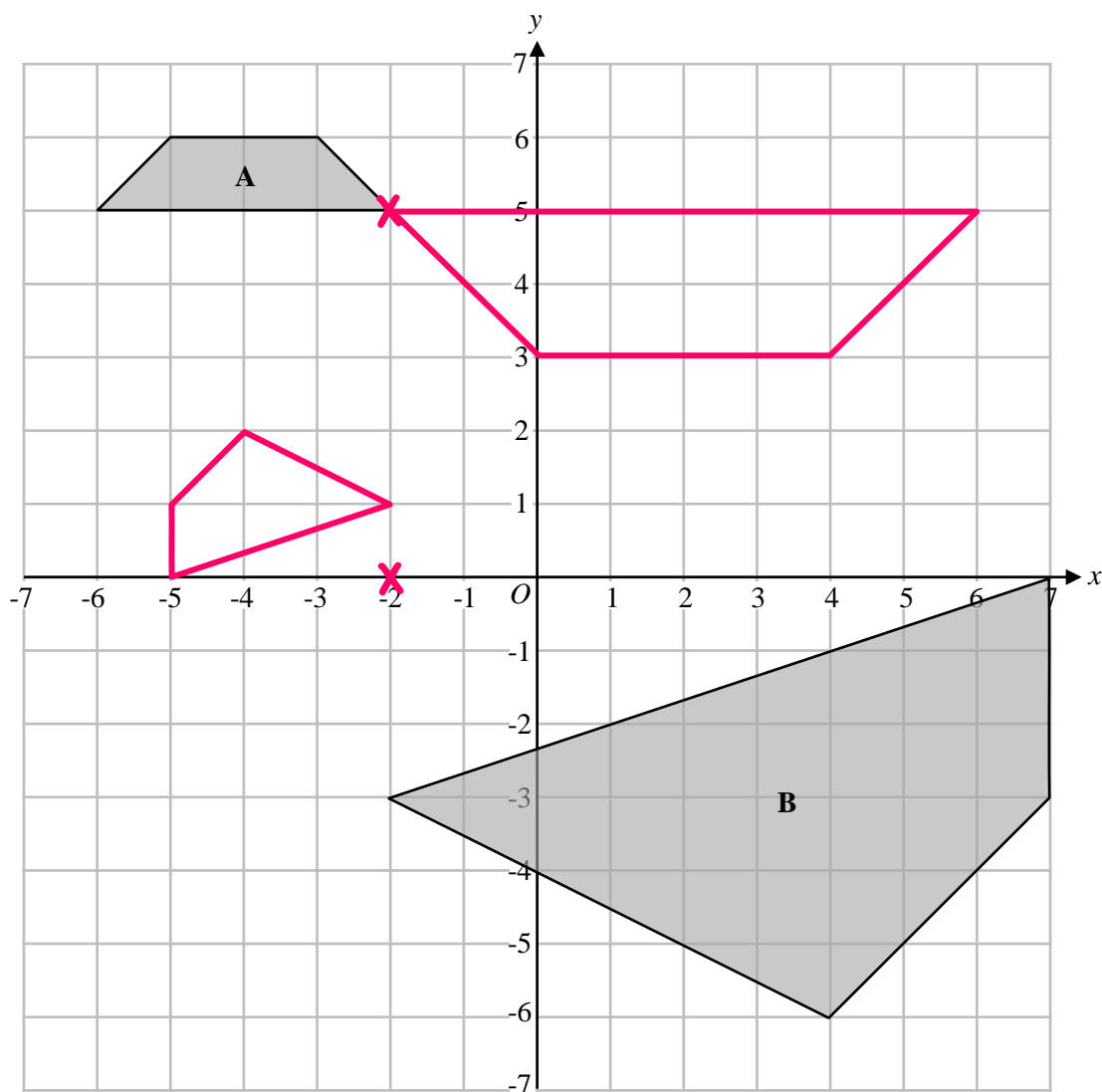
(b) Enlarge shape **B** by scale factor -0.5 , centre $(2, -4)$ (2)



(Total for Question 3 is 4 marks)

4 (a) Enlarge shape **A** by scale factor -2 , centre $(-2, 5)$ (2)

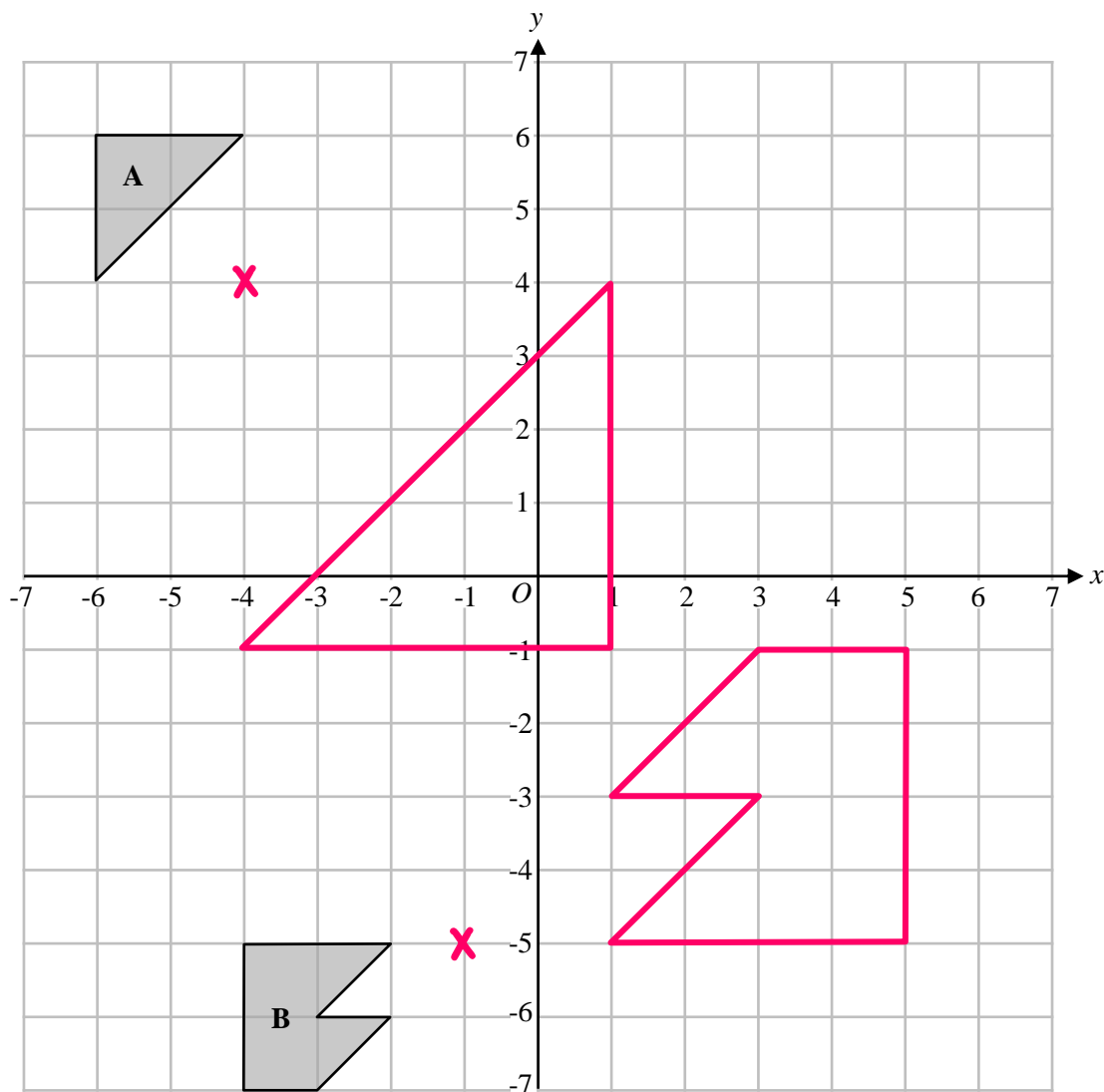
(b) Enlarge shape **B** by scale factor $-\frac{1}{3}$, centre $(-2, 0)$ (2)



(Total for Question 4 is 4 marks)

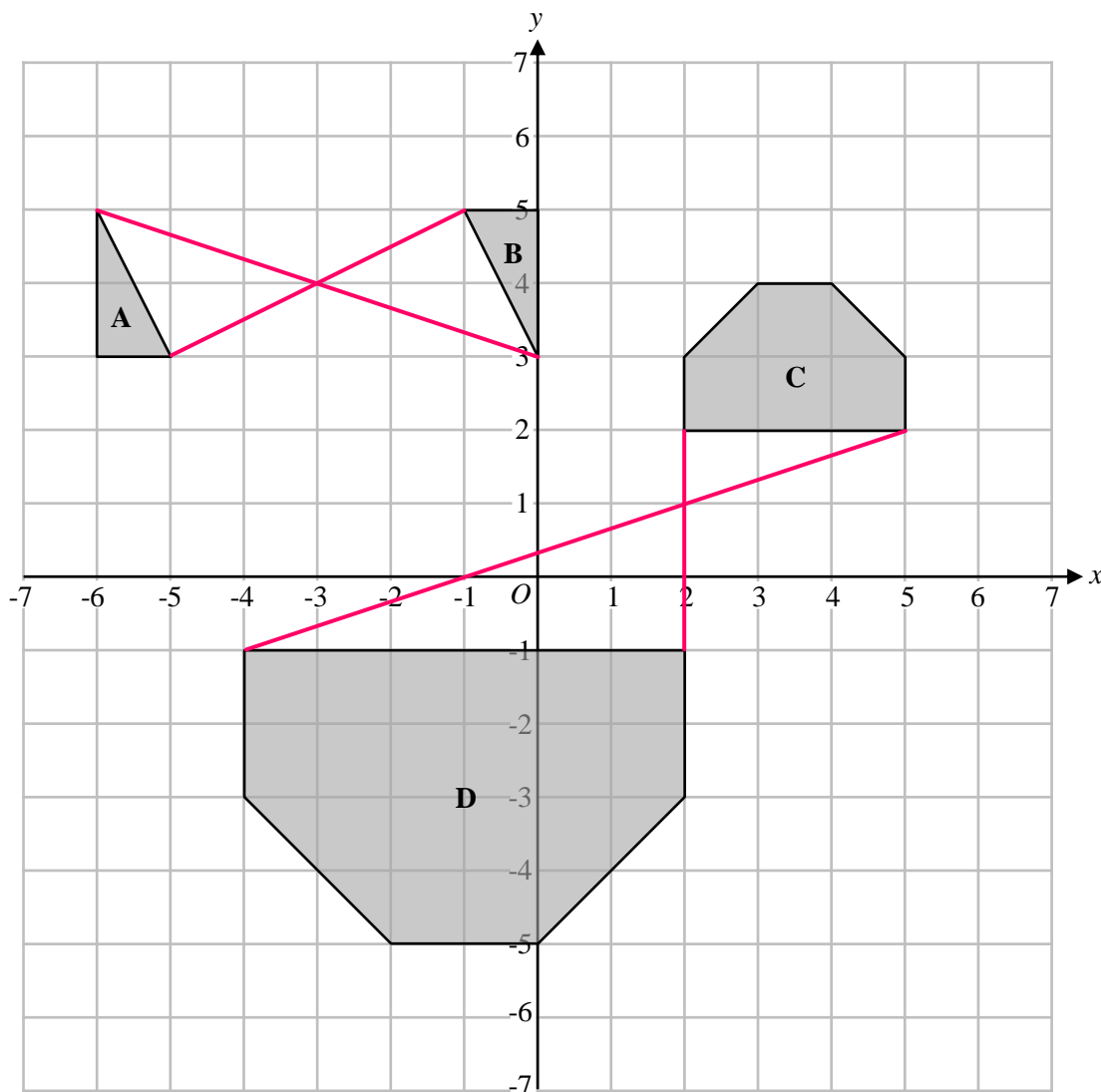
5 (a) Enlarge shape **A** by scale factor $-2\frac{1}{2}$, centre $(-4, 4)$ (2)

(b) Enlarge shape **B** by scale factor -2 , centre $(-1, -5)$ (2)



(Total for Question 5 is 4 marks)

6



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

Enlargement, scale factor -1
 Centre of enlargement $(-3, 4)$

(2)

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

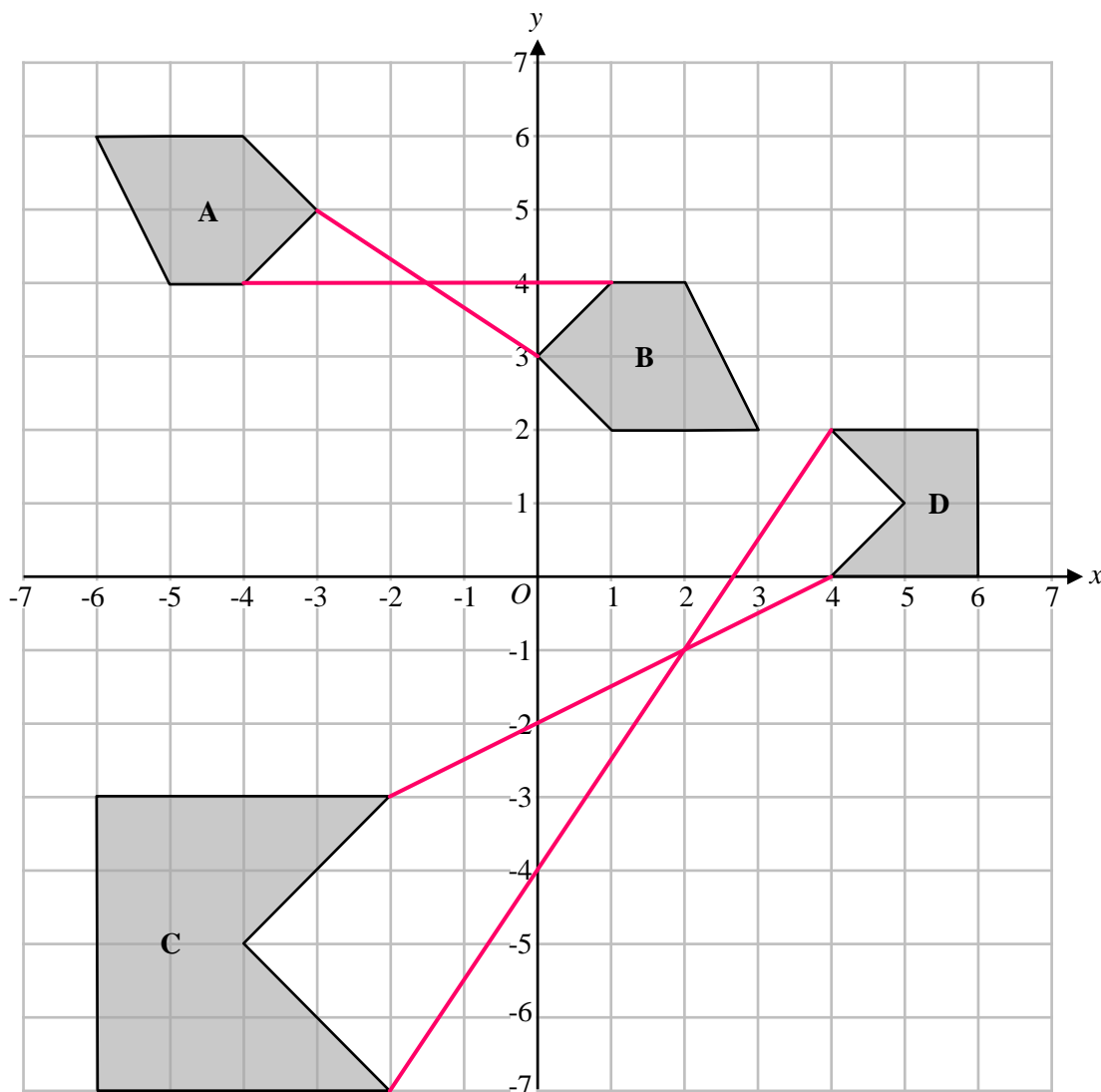
Enlargement, scale factor -2
 Centre of enlargement $(2, 1)$

(2)

(Total for Question 6 is 4 marks)



7



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

Enlargement, scale factor -1
 Centre of enlargement $(-1.5, 4)$

(2)

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

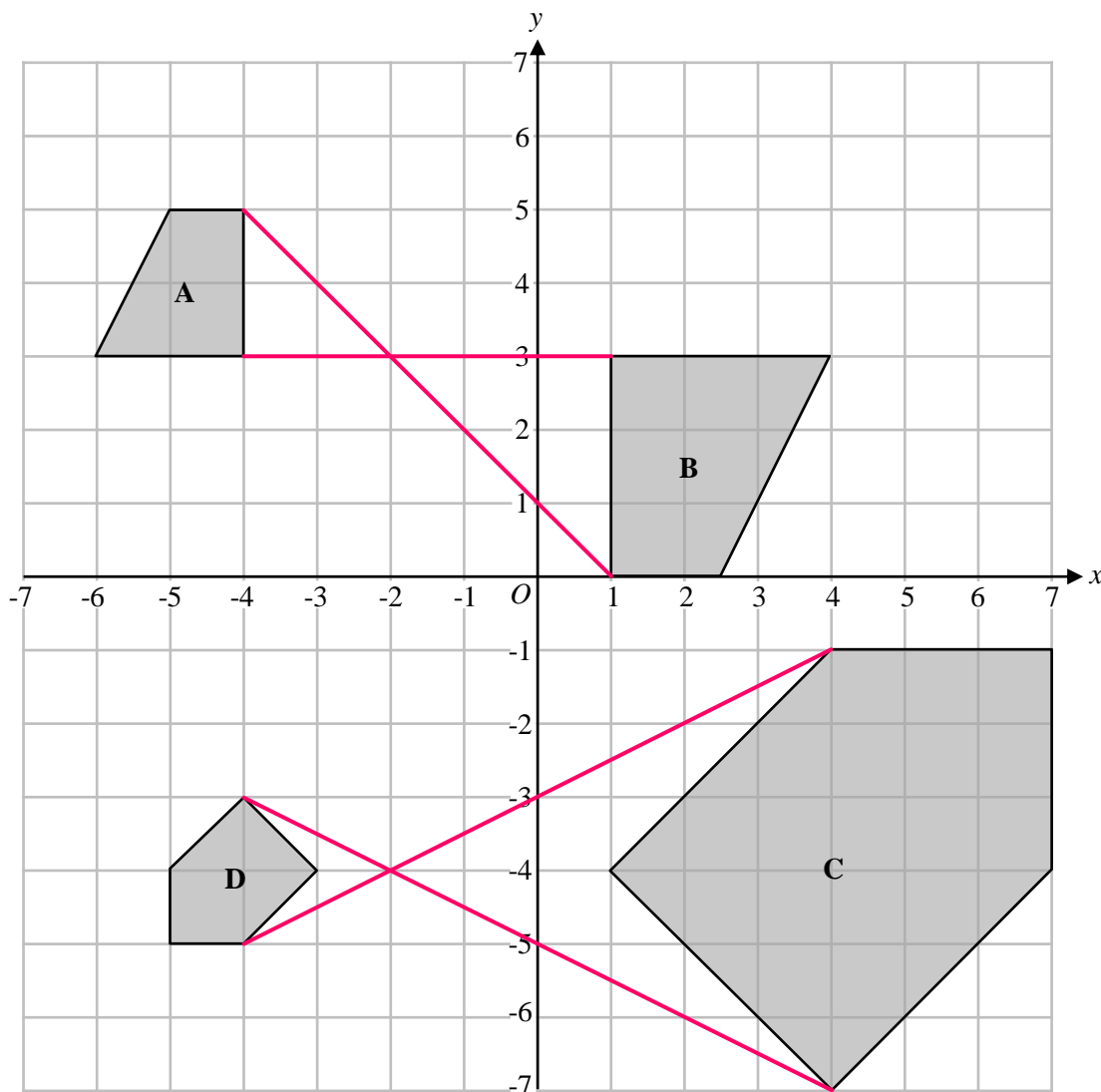
Enlargement, scale factor $-\frac{1}{2}$
 Centre of enlargement $(2, -1)$

(2)

(Total for Question 7 is 4 marks)



8



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

Enlargement, scale factor $-1\frac{1}{2}$
 Centre of enlargement $(-2, 3)$

(2)

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

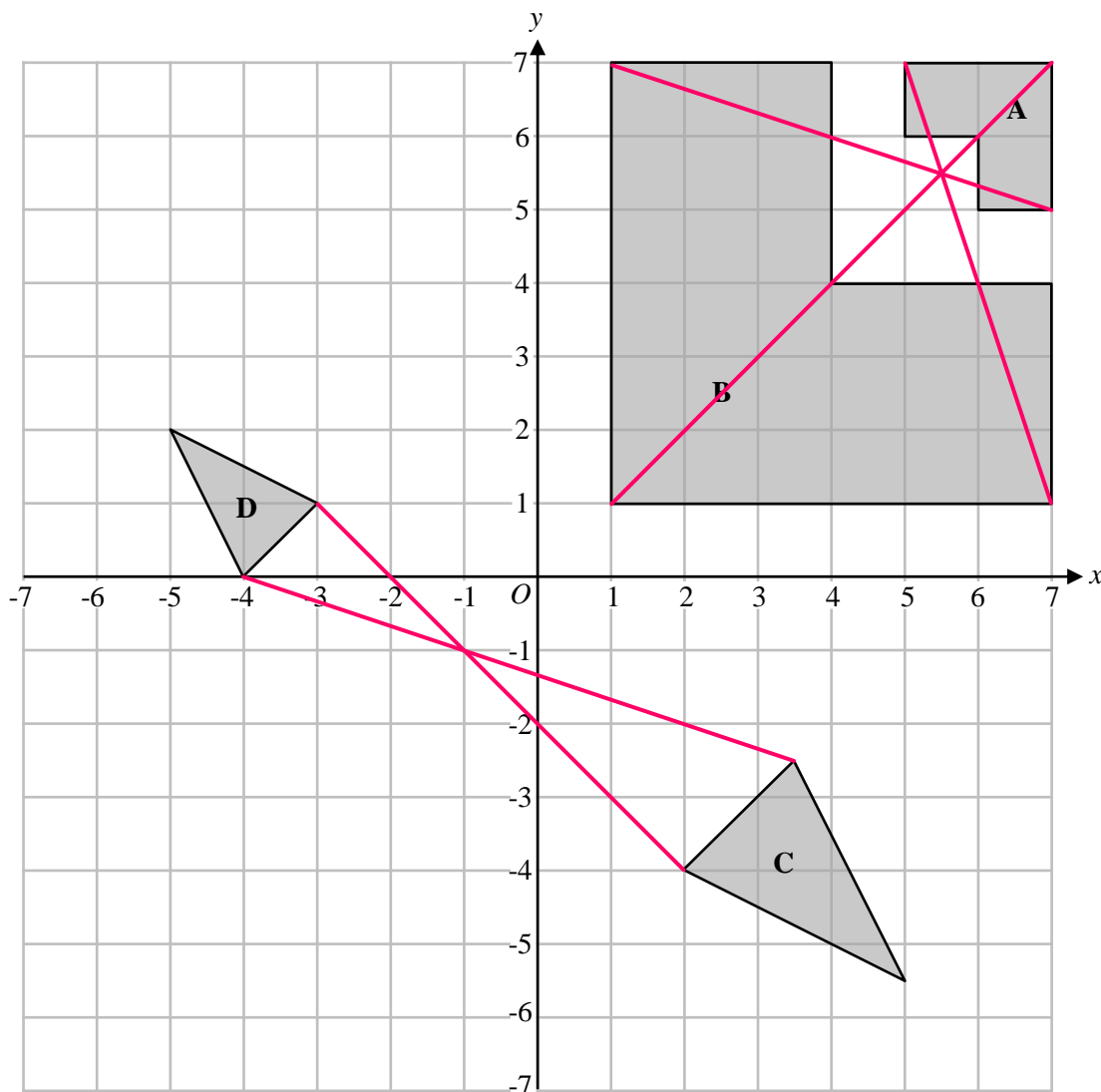
Enlargement, scale factor $-\frac{1}{3}$
 Centre of enlargement $(-2, -4)$

(2)

(Total for Question 8 is 4 marks)



9



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

Enlargement, scale factor -3
 Centre of enlargement $(5.5, 5.5)$

(2)

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

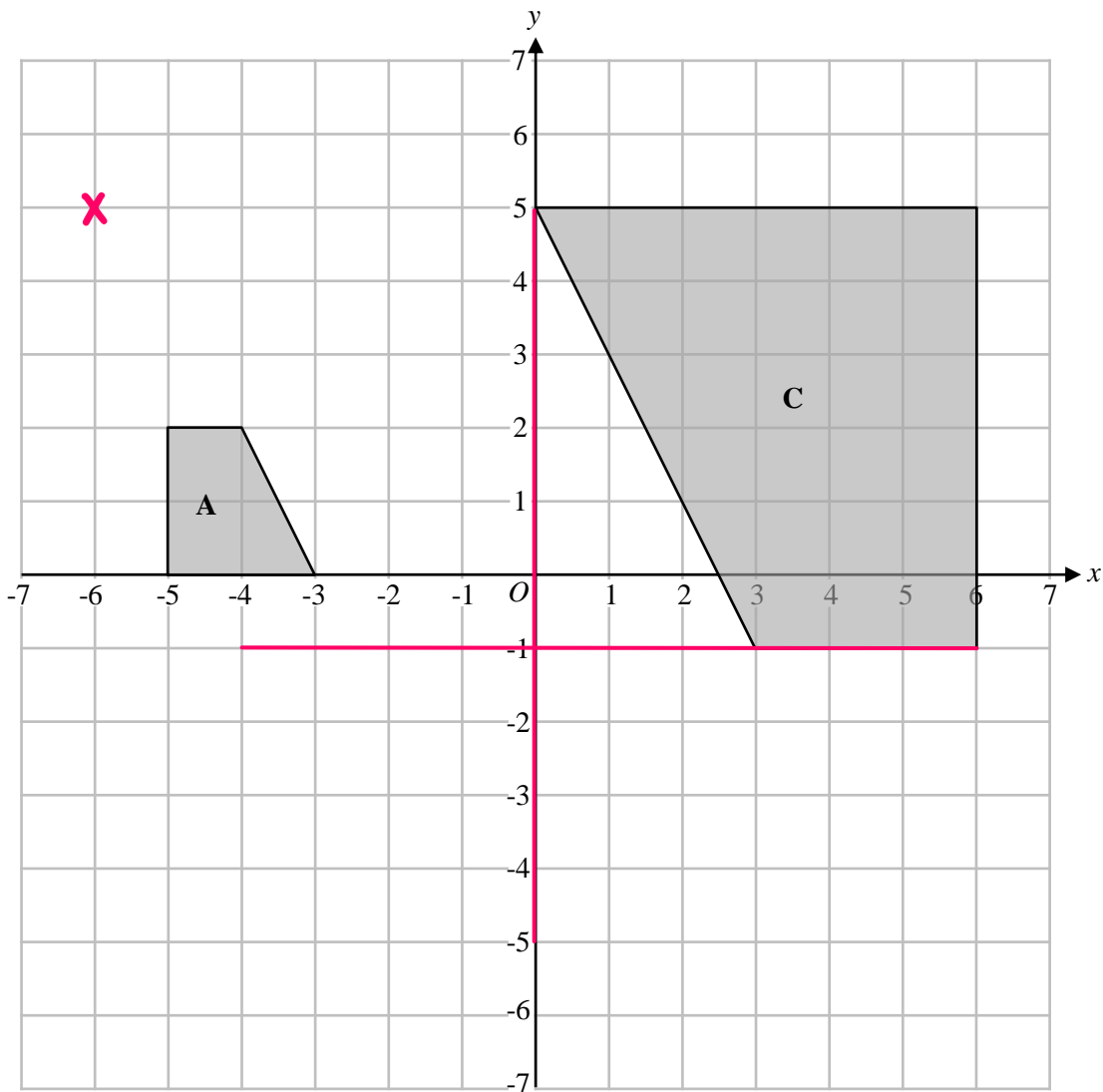
Enlargement, scale factor $-\frac{2}{3}$
 Centre of enlargement $(-1, -1)$

(2)

(Total for Question 9 is 4 marks)



10



Shape **A** is enlarged by scale factor 2 with centre of enlargement $(-6, 5)$ to shape **B**.

Shape **B** is enlarged to shape **C**.

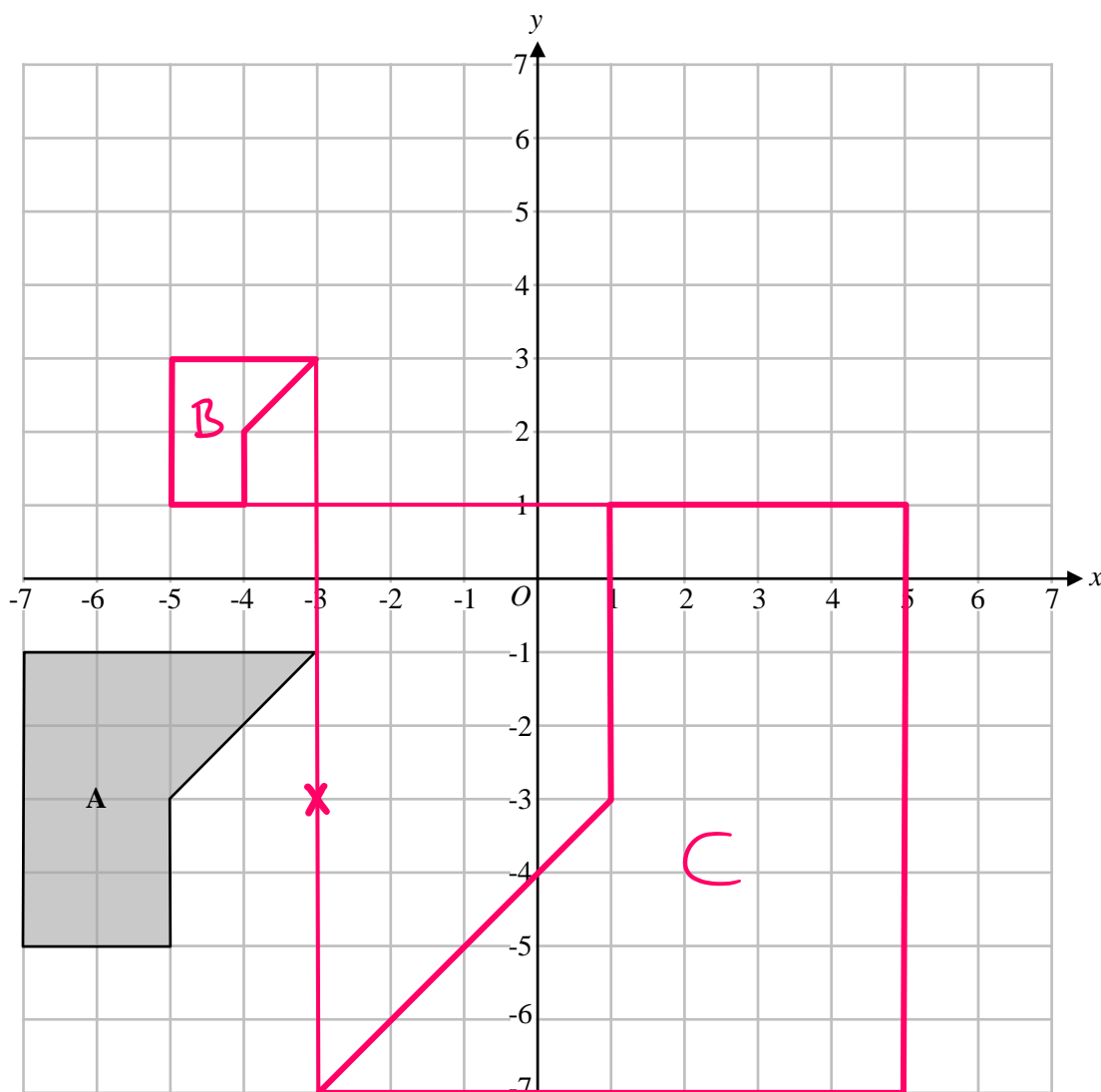
Describe fully the single transformation that maps shape **B** onto shape **C**.

Enlargement, scale factor $-1\frac{1}{2}$
 Centre of enlargement $(0, -1)$

(Total for Question 10 is 4 marks)



11



Shape A is enlarged by scale factor 0.5 with centre of enlargement $(-3, 7)$ to shape B.

Shape A is enlarged by scale factor -2 with centre of enlargement $(-3, -3)$ to shape C.

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

Enlargement, scale factor $-\frac{1}{4}$
 Centre of enlargement $(-3, 1)$

(Total for Question 11 is 4 marks)

