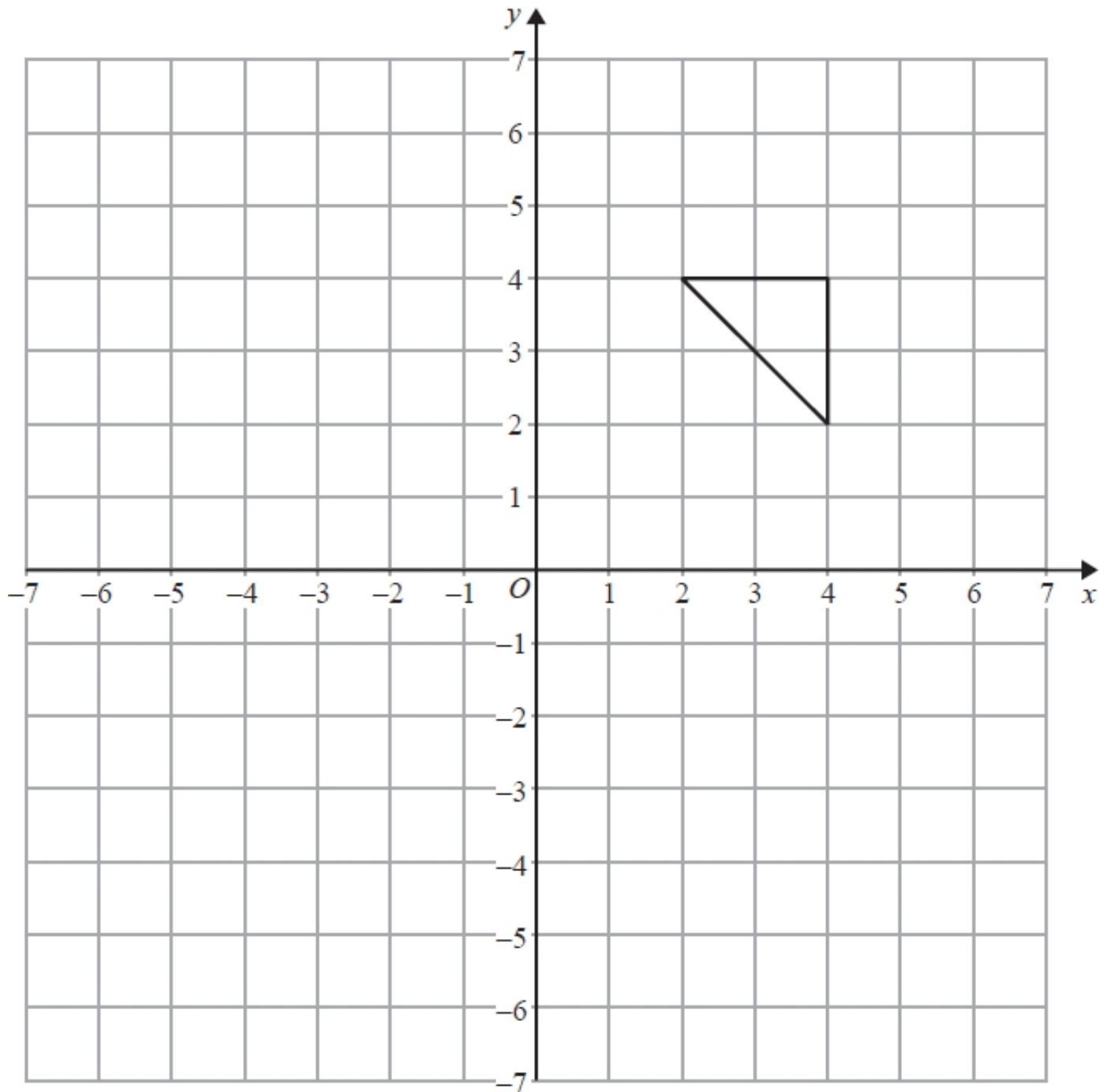


Enlargement (Negative Scale Factors)

- GCSE Exam Questions

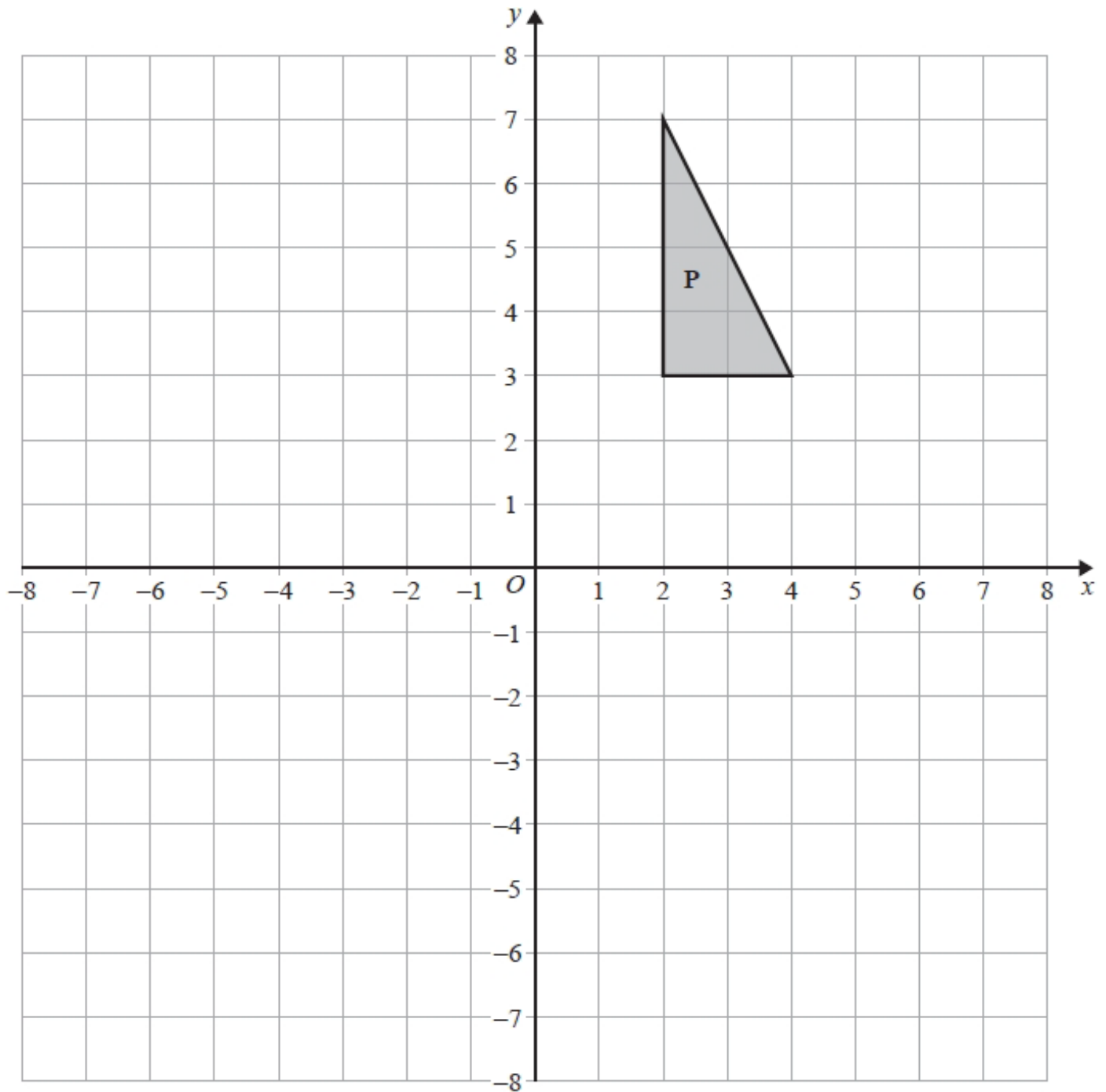
Q1.



On the grid, enlarge the triangle by scale factor $-1\frac{1}{2}$, centre (0, 2)

(Total for question = 2 marks)

Q2.

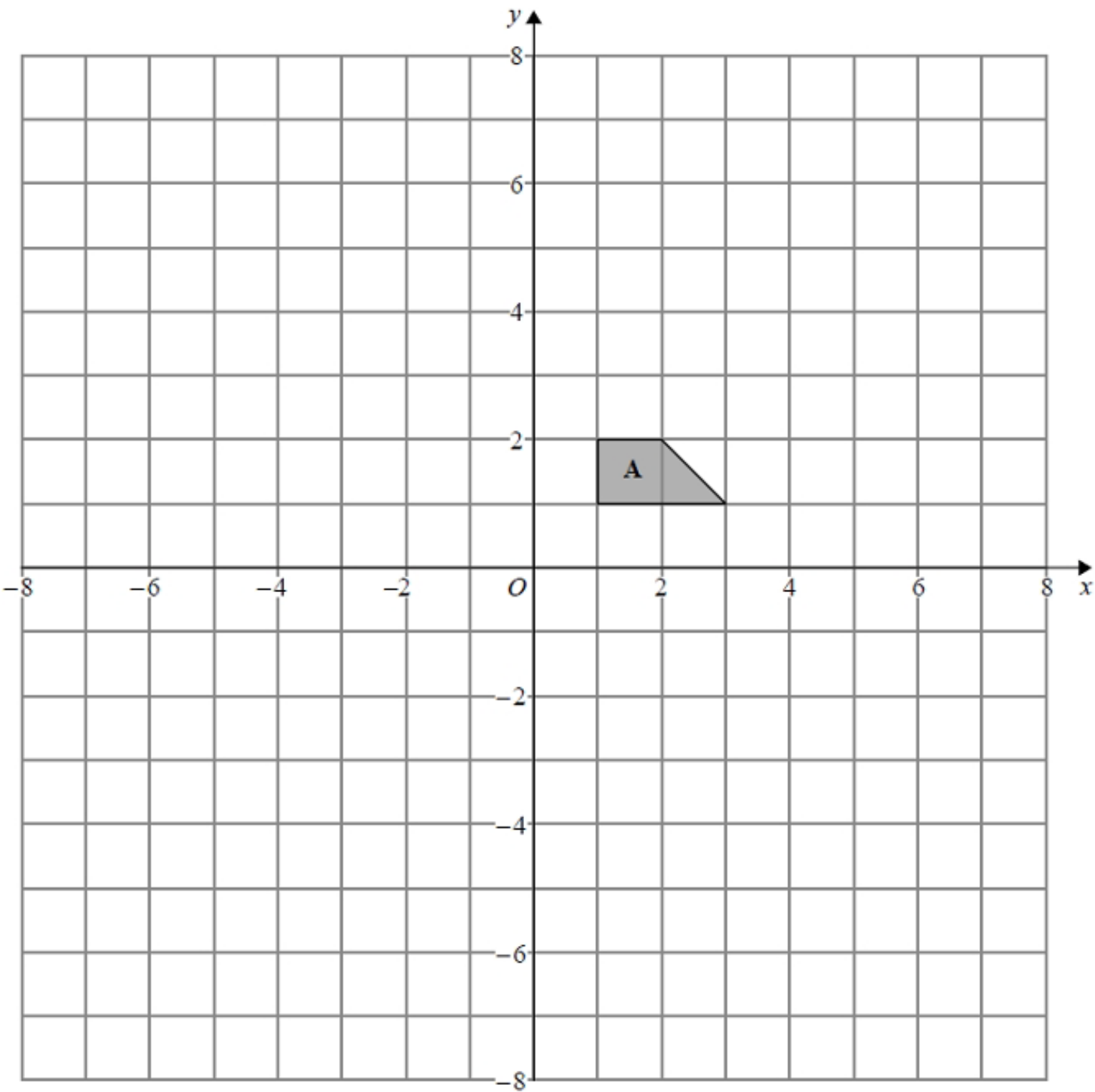


Enlarge shape **P** by scale factor $-\frac{1}{2}$ with centre of enlargement (0, 0).

Label your image **Q**.

(Total for question = 2 marks)

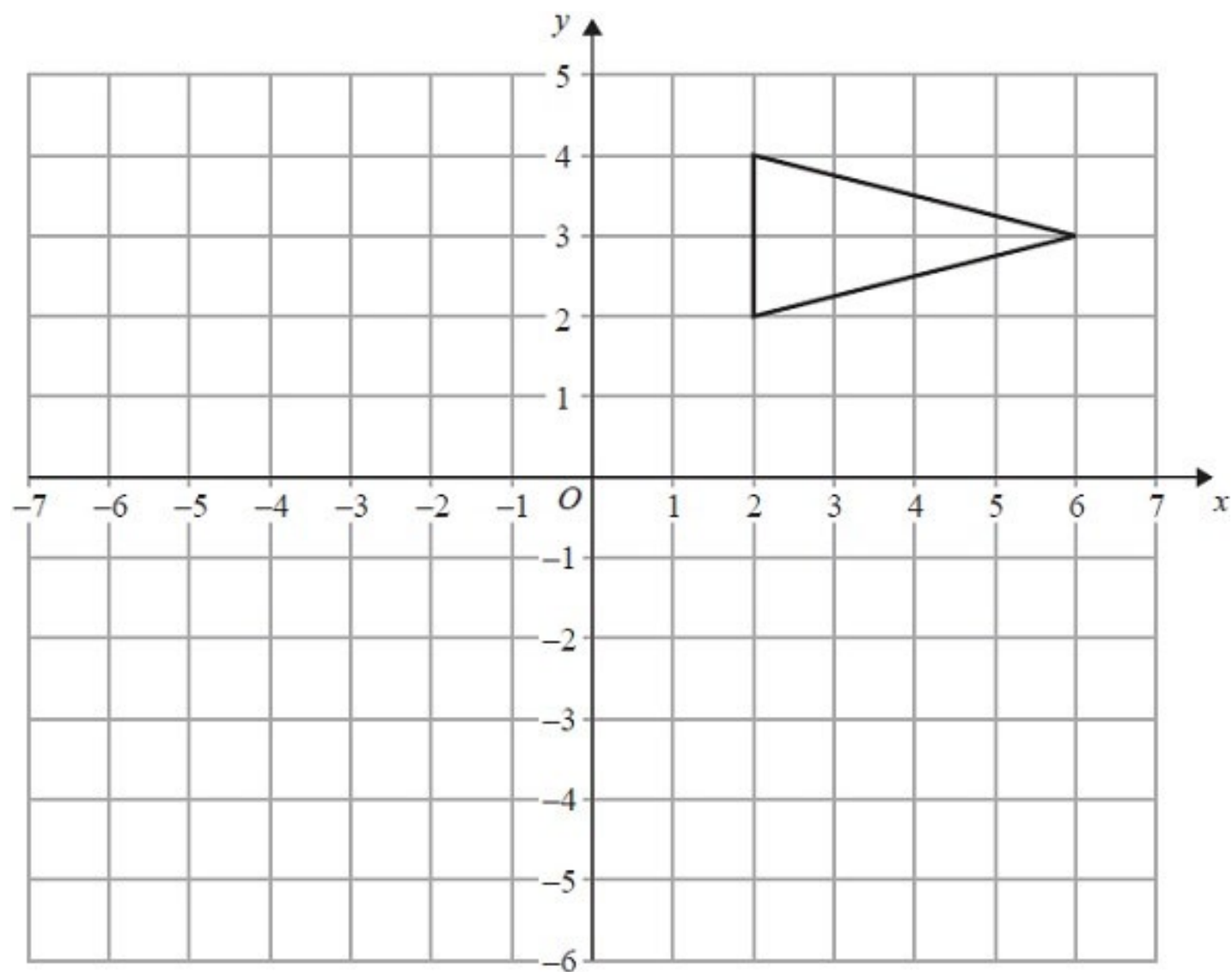
Q3.



- (a) Enlarge shape **A** by scale factor -2 , centre $(0, 0)$
Label your image **B**. (2)
- (b) Describe fully the single transformation that will map shape **B** onto shape **A**. (1)

(Total for question = 3 marks)

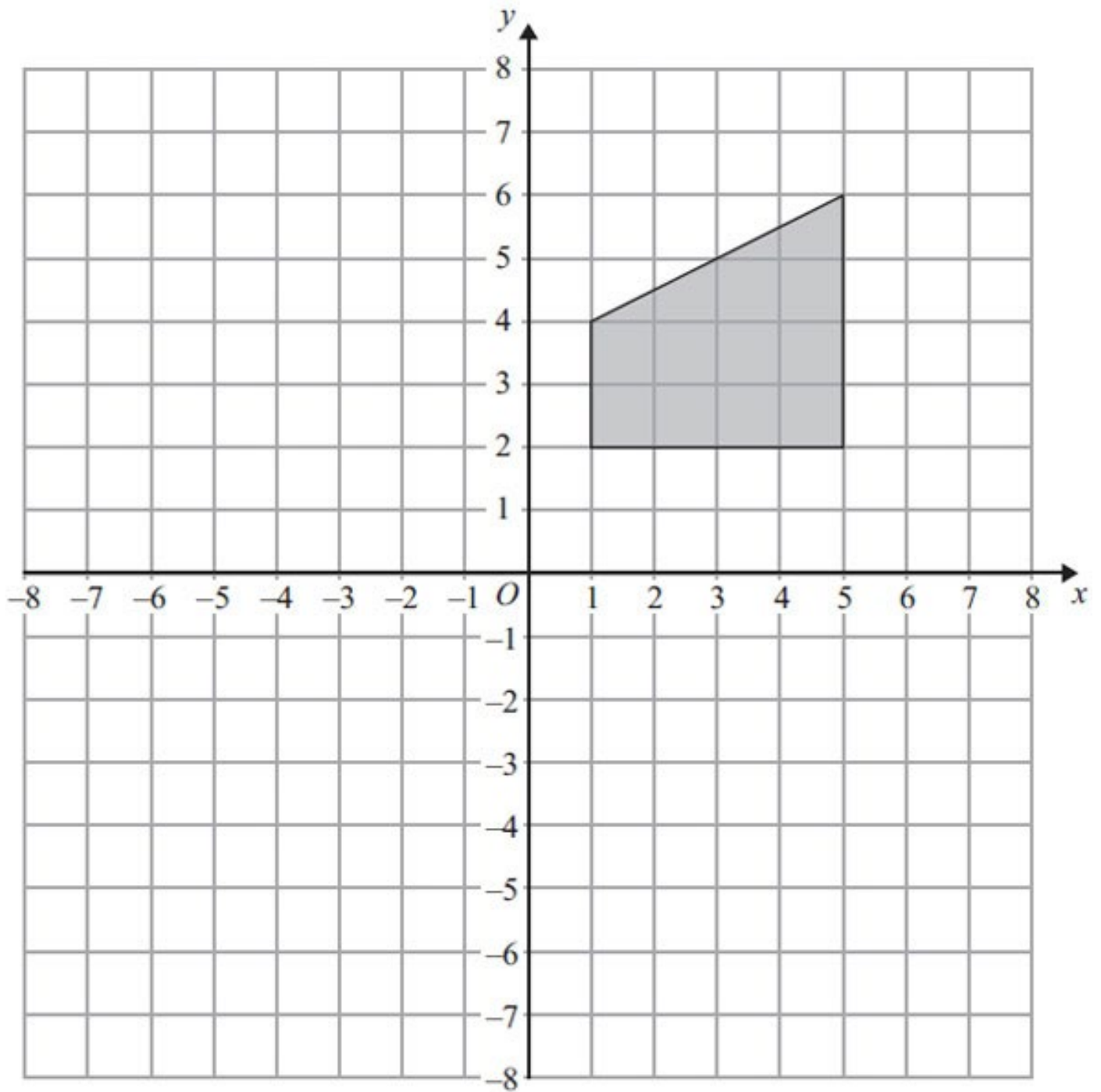
Q4.



On the grid, enlarge the triangle by scale factor $-\frac{1}{2}$, centre (0, -2).

(Total for Question is 2 marks)

Q5.

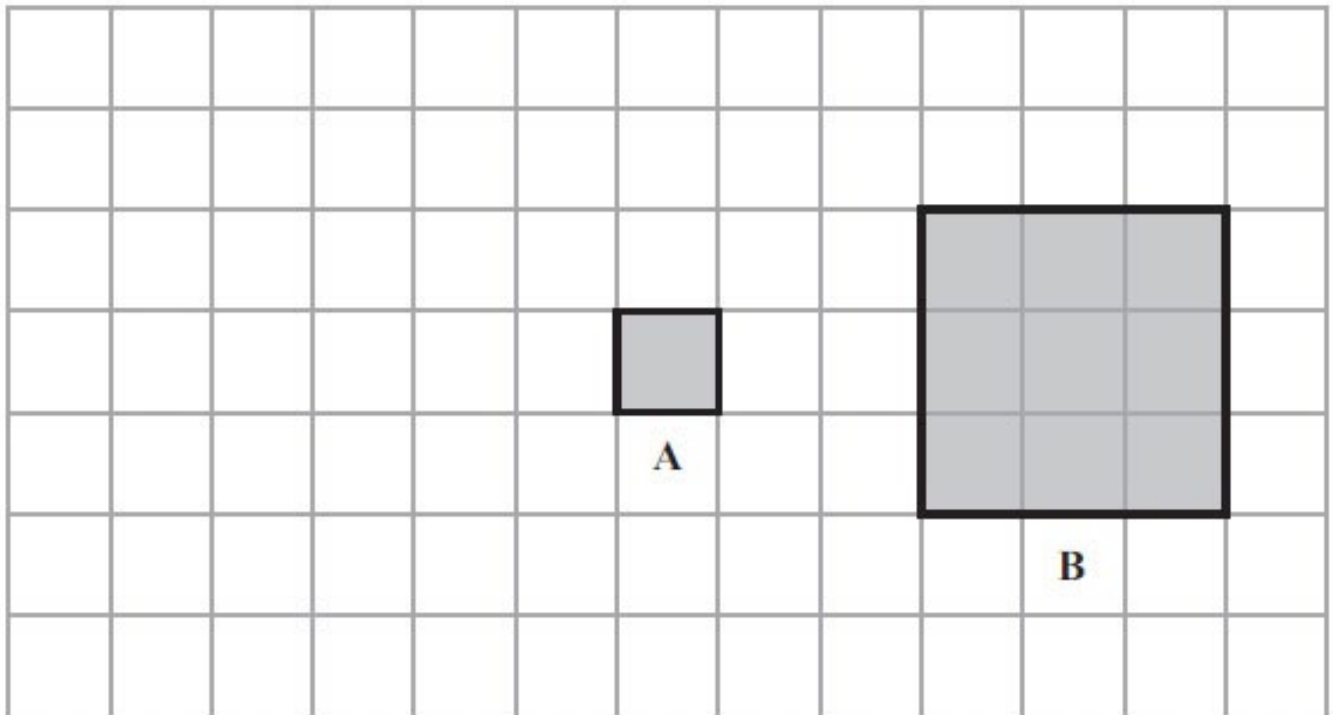


Enlarge the shaded shape by scale factor $-\frac{1}{2}$ with centre $(-1, -2)$.

(Total for Question is 3 marks)

Q6.

Here are two squares.



Square **B** is an enlargement of square **A**.

(a) What is the scale factor of the enlargement?

(1)

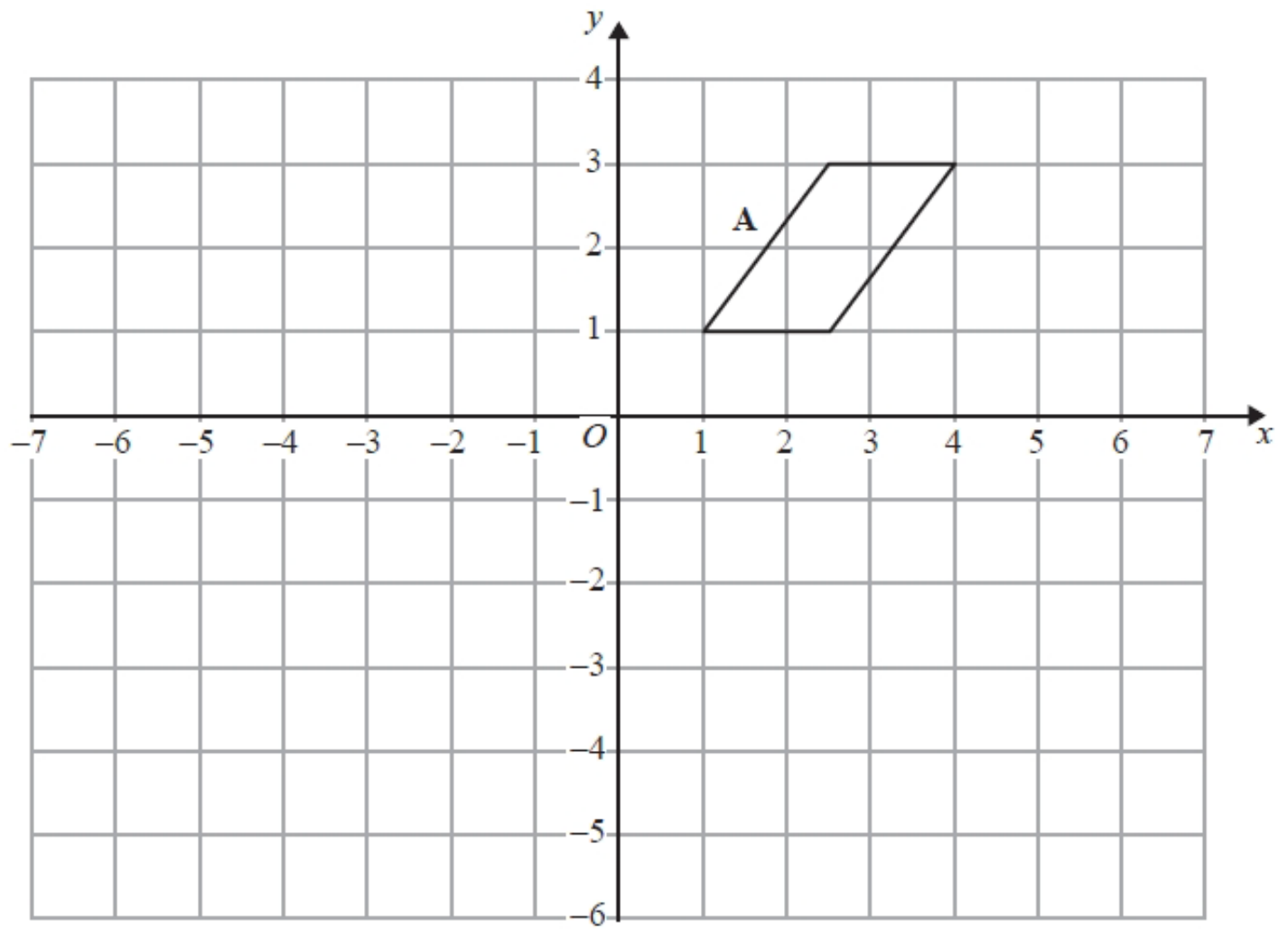
Square **A** is moved 4 squares to the left.

(b) On the grid, draw the new position of square **A**.

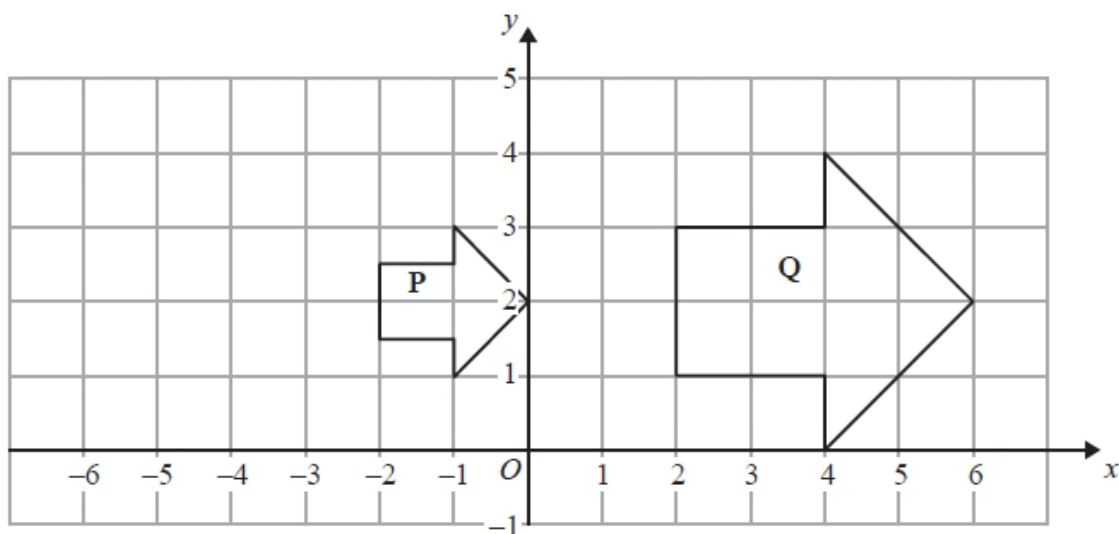
(1)

(Total for Question is 2 marks)

Q7.



(a) Reflect shape **A** in the line $x = -1$



(b) Describe fully the single transformation that maps shape **P** onto shape **Q**.

(Total for question = 5 marks)