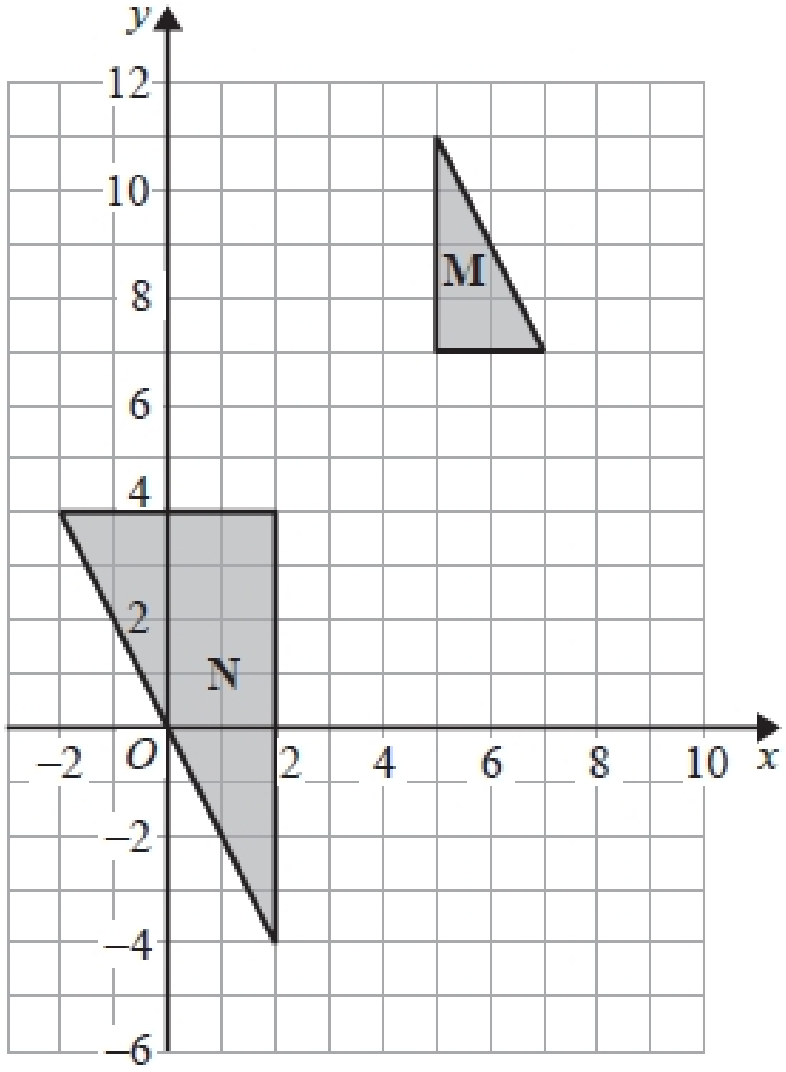
G186 Transformations 2

Q1.



Describe fully the single transformation that maps triangle **M** onto triangle **N**.

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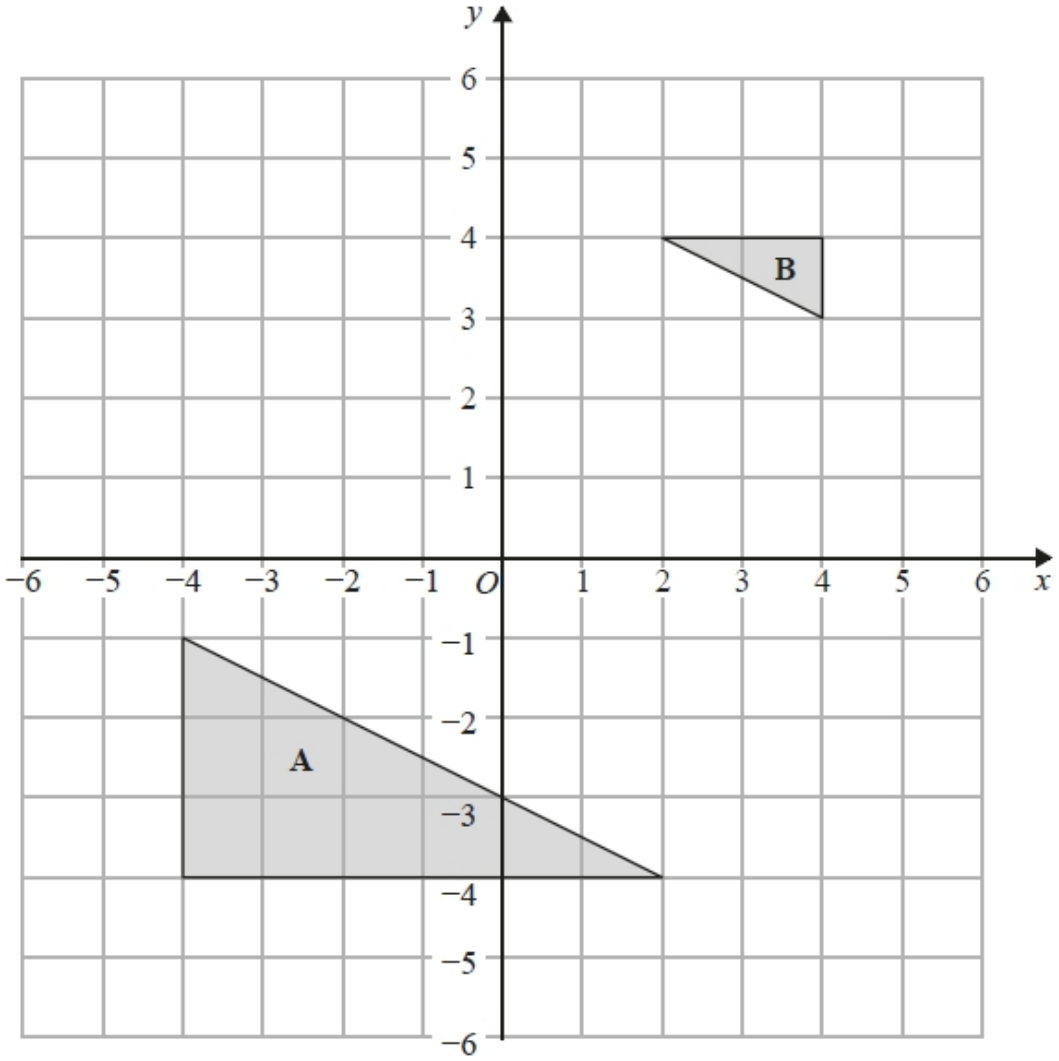
(Total for question = 2 marks)

Q2.



Describe fully the single transformation that maps triangle **A** onto triangle **B**.

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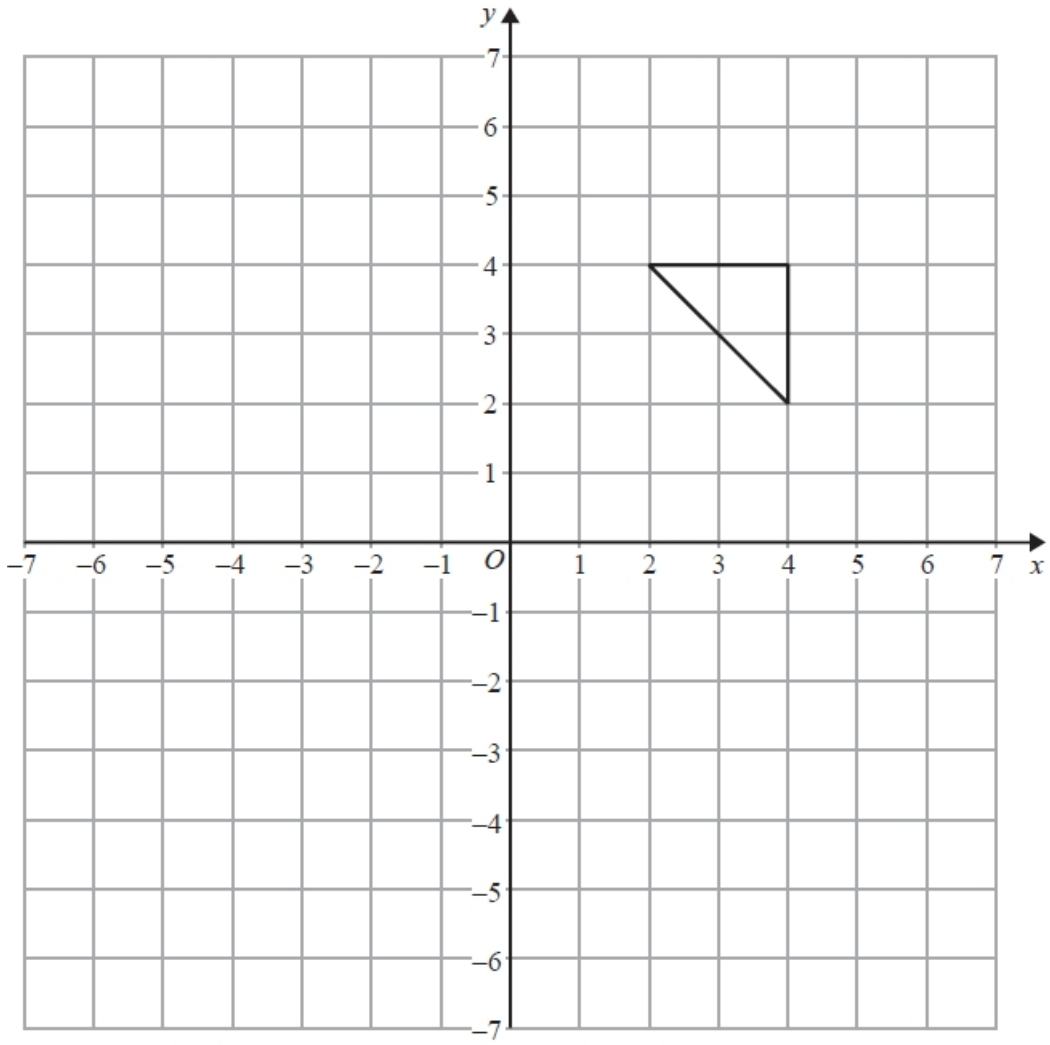
(Total for question = 2 marks)

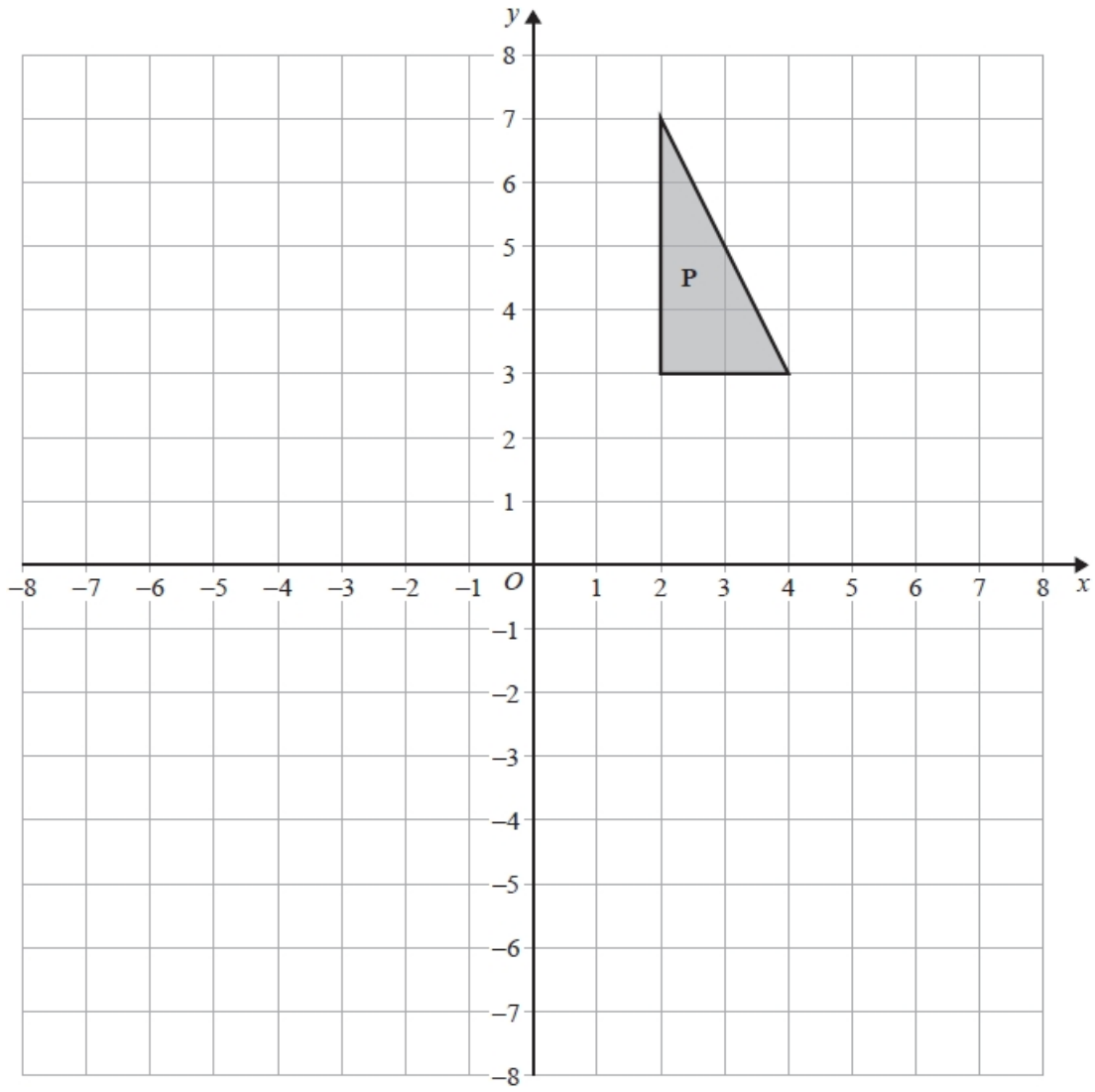
Q3.



On the grid, enlarge the triangle by scale factor –1½, centre (0, 2)

(Total for question = 2 marks)

Q4.

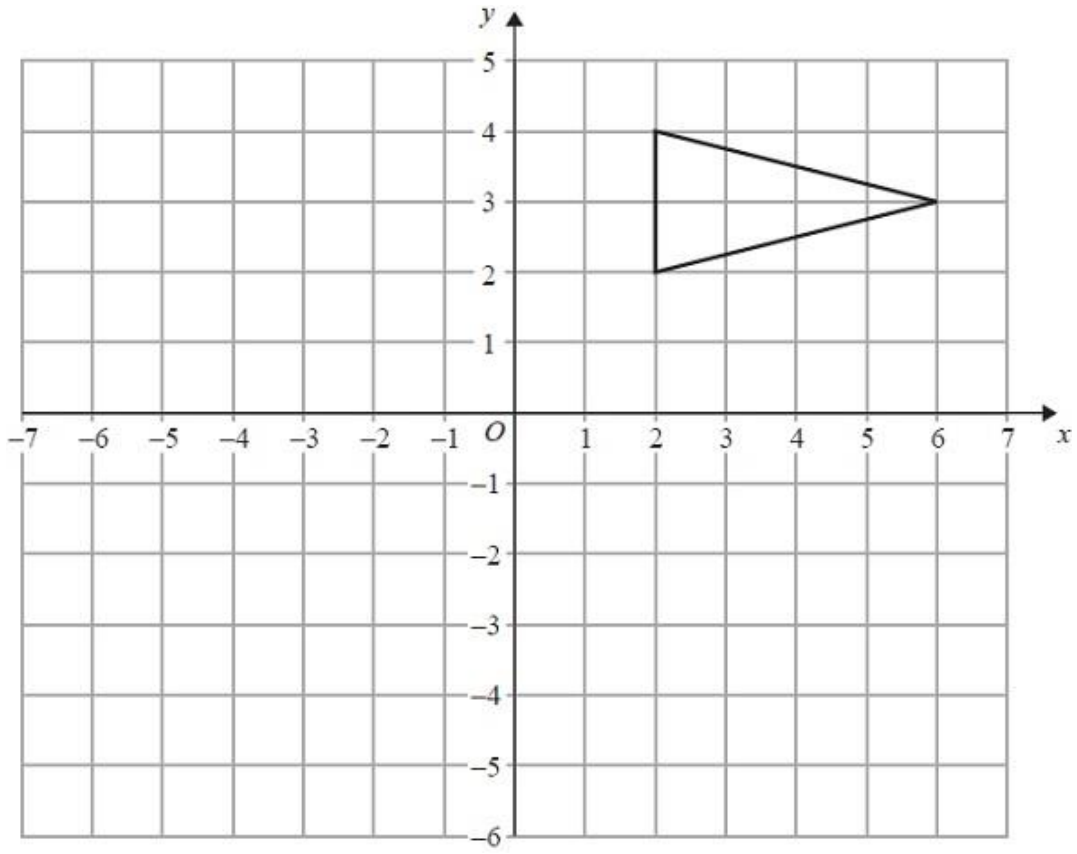


Enlarge shape **P** by scale factor $-\frac{1}{2}$ with centre of enlargement (0, 0).

Label your image **Q**.

(Total for question = 2 marks)

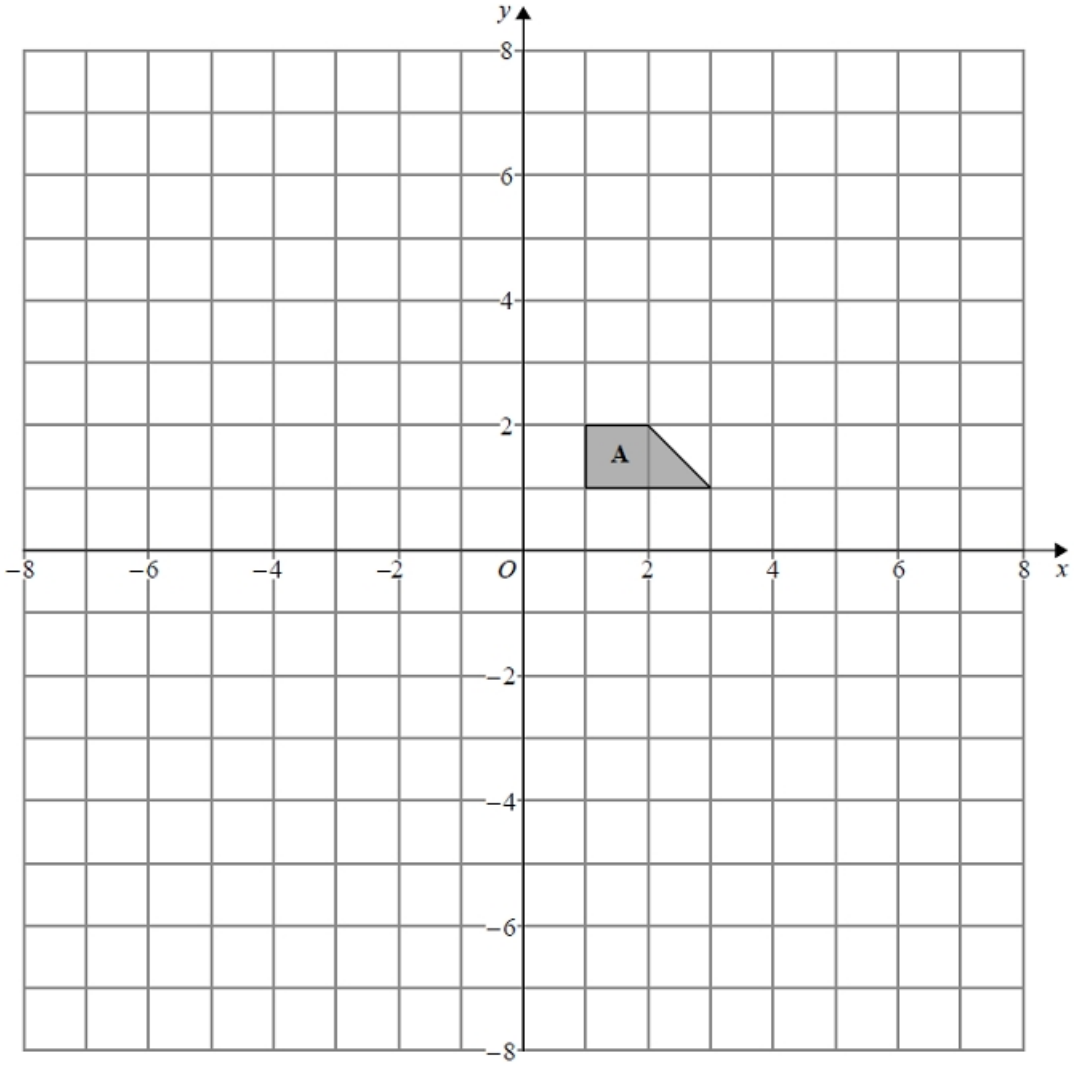
Q5.



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

(Total for Question is 2 marks)

Q6.



(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**.

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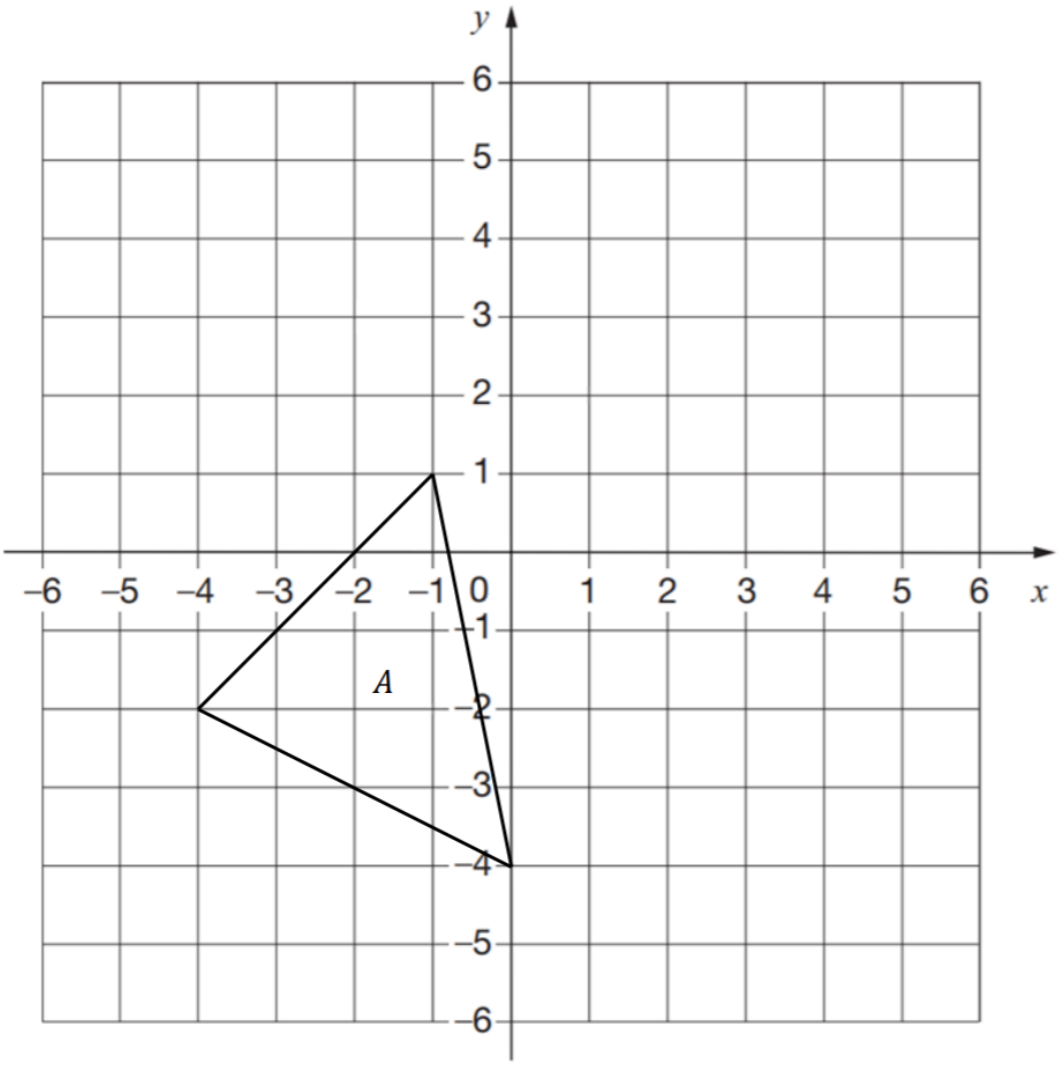
(1)

(Total for question = 3 marks)

Q7.

Shape **A** is shown on the grid below.



(a) Reflect shape **A** on the line y=1. Label your image **B**.

(2)

(b) Write the coordinates for any invariant points for the reflected shape.

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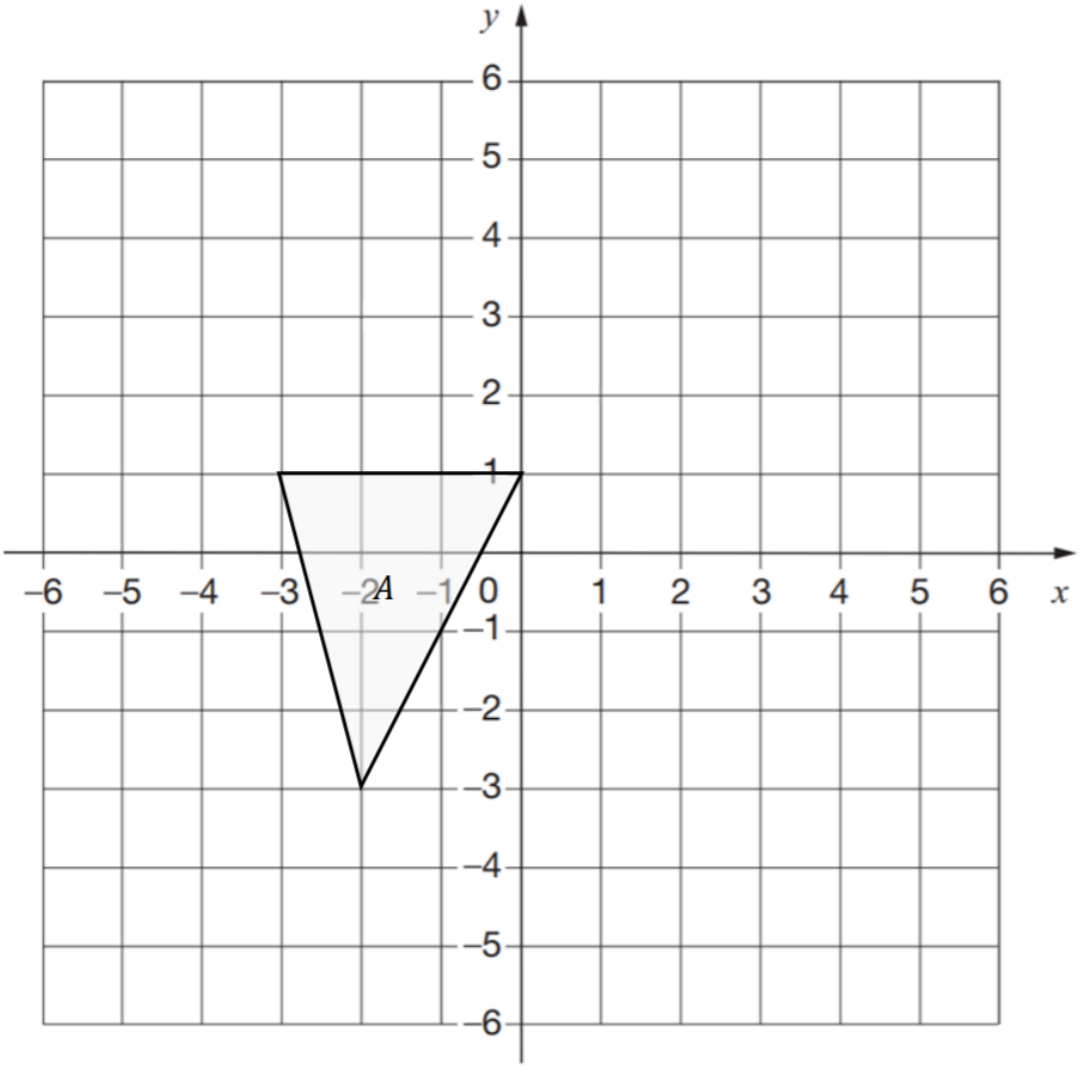
(1)

(Total for question = 3 marks)

Q8.

Shape **A** is shown on the grid below.



(a) Enlarge shape **A** by a scale factor of 2 about point (-2, -3).

(2)

(b) Write the coordinates for any invariant points for the enlarged shape.

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(1)

(Total for question = 3 marks)