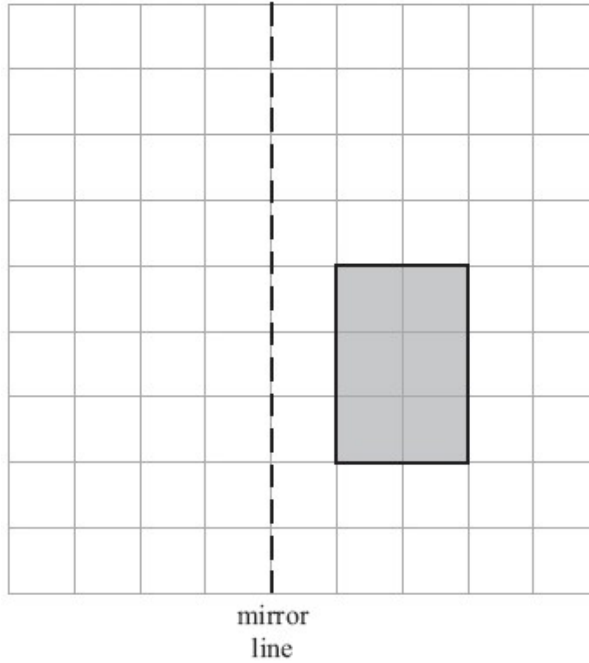


GCSE QUESTIONS

Q1. NON-CALCULATOR

Here is a shaded shape on a grid of centimetre squares.



(a) Find the perimeter of the shaded shape.

.....

(1)

(b) Find the area of the shaded shape.

..... cm²

(1)

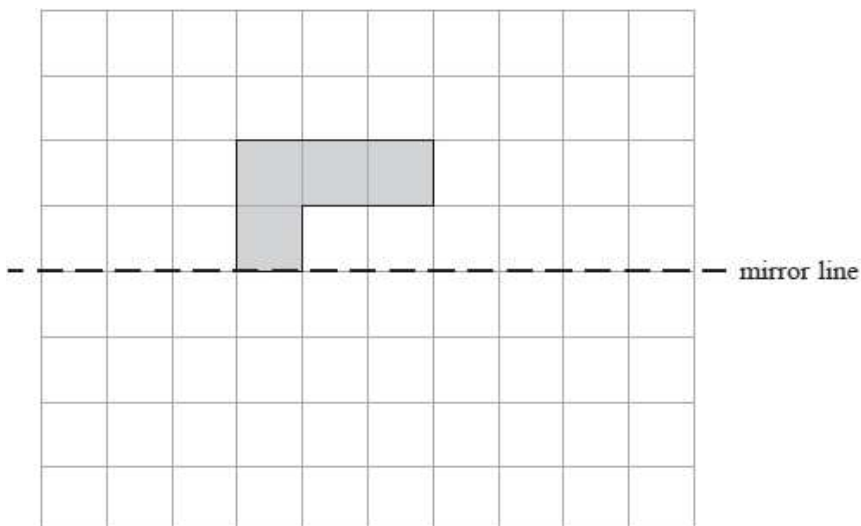
(c) Reflect the shaded shape in the mirror line.

(2)

(Total for Question is 4 marks)

Q2. NON-CALCULATOR

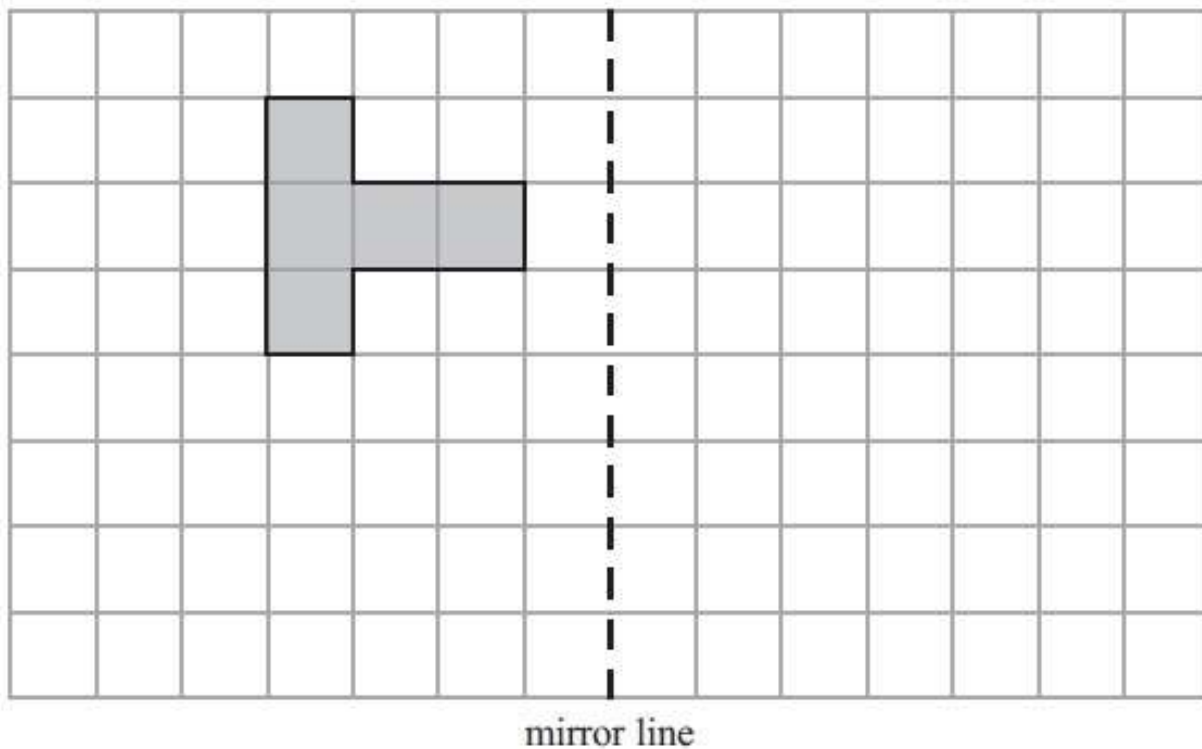
On the grid, reflect the shaded shape in the mirror line.



(Total for question = 1 mark)

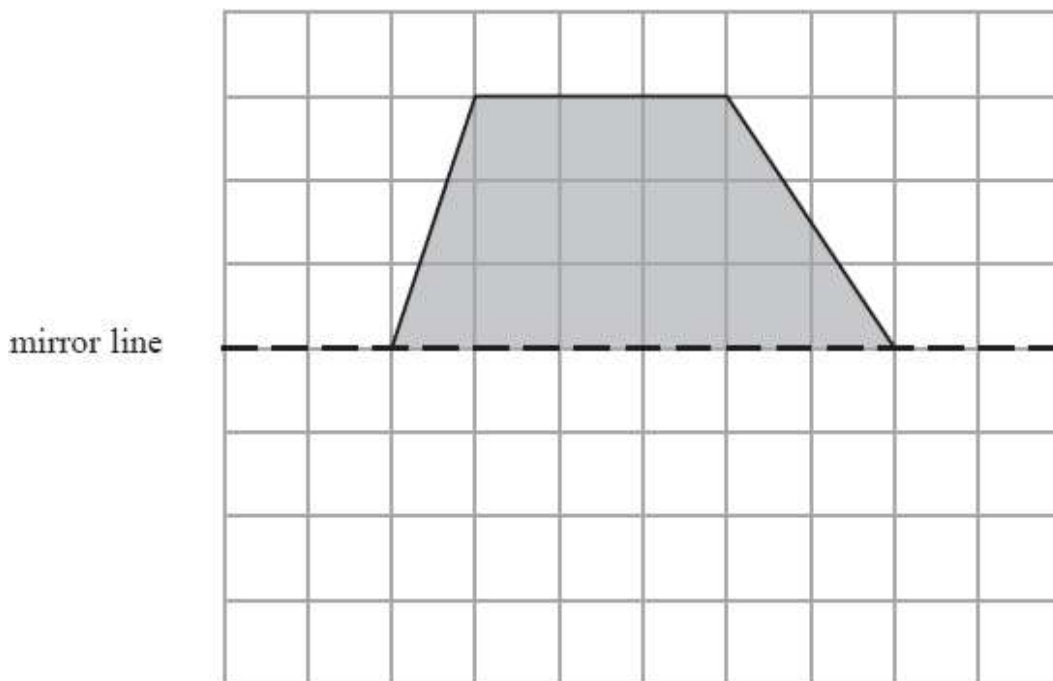
Q3. NON-CALCULATOR

Reflect the shaded shape in the mirror line.



(Total for Question is 2 marks)

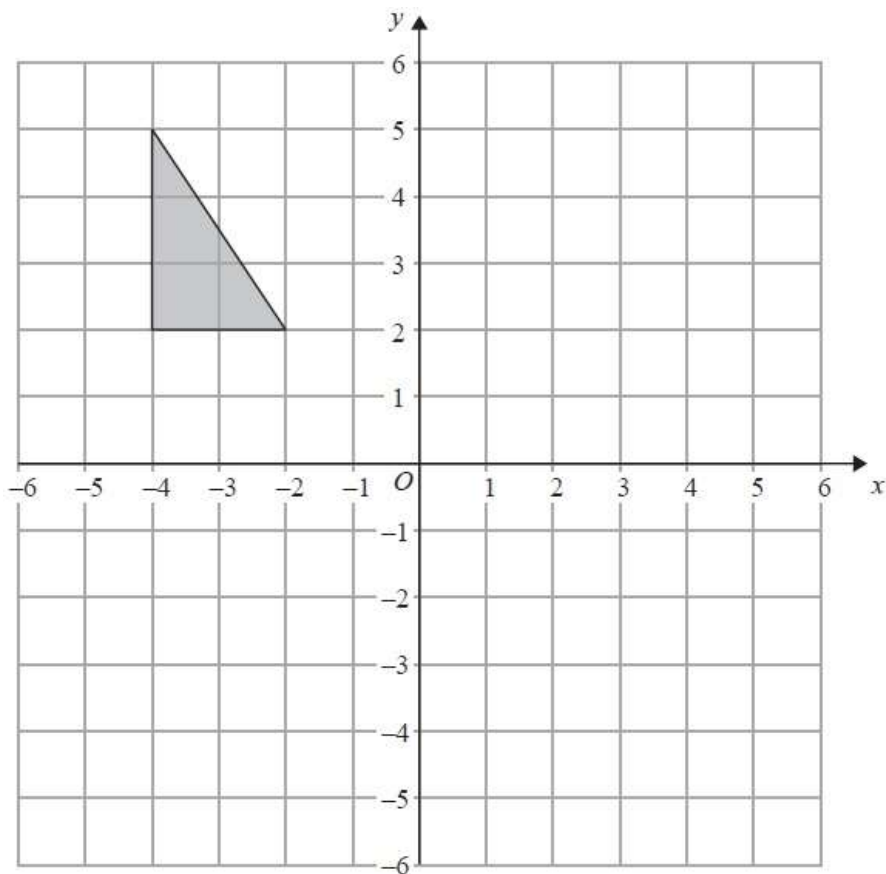
Q4. NON-CALCULATOR



Reflect the shaded shape in the mirror line.

(Total for question = 1 mark)

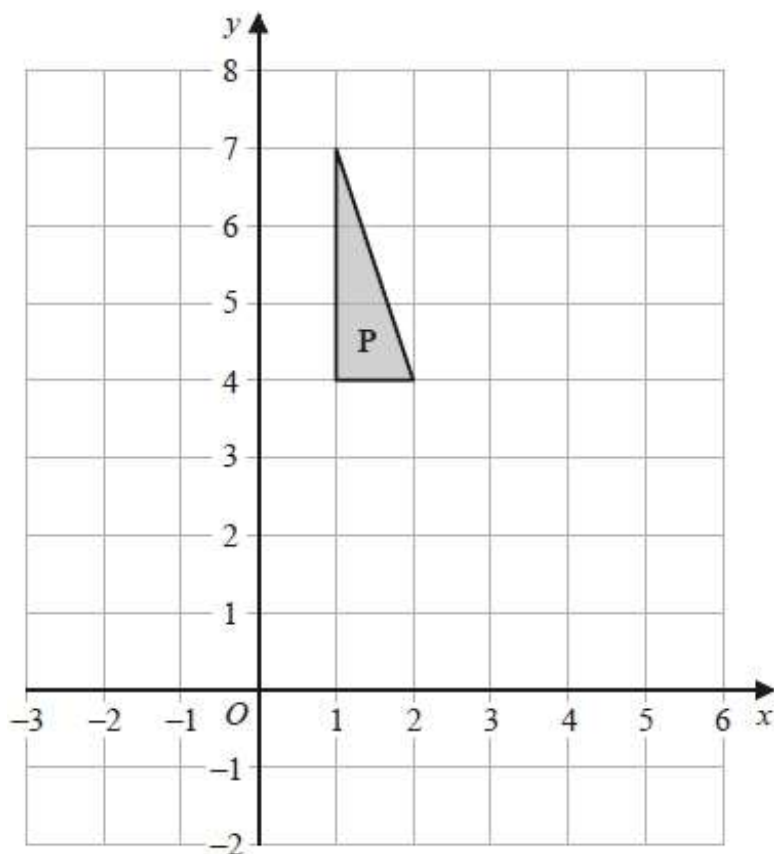
Q5. NON-CALCULATOR



Reflect the shaded triangle in the y-axis.

(Total for Question is 2 marks)

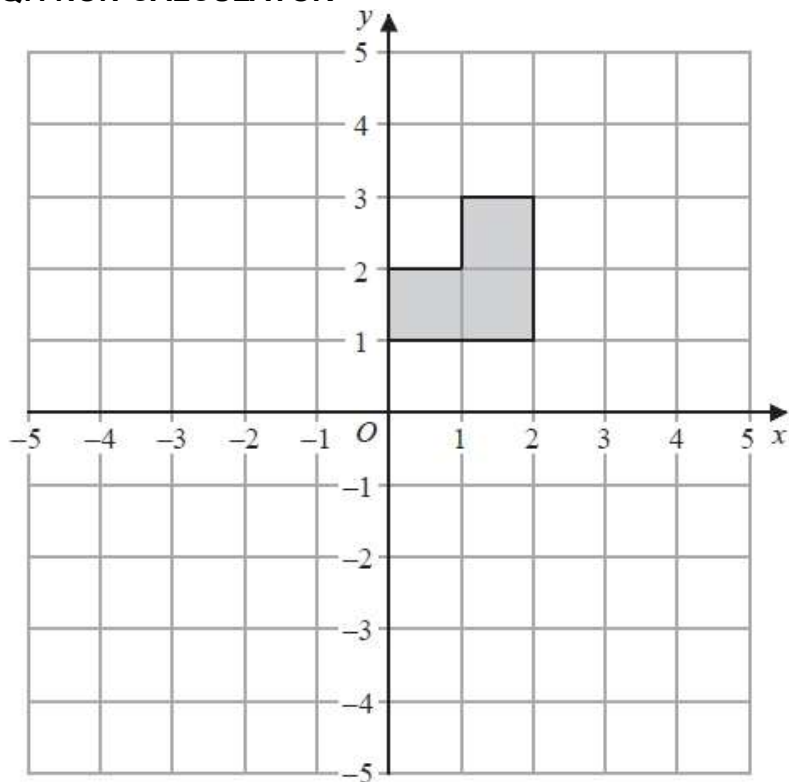
Q6. NON-CALCULATOR



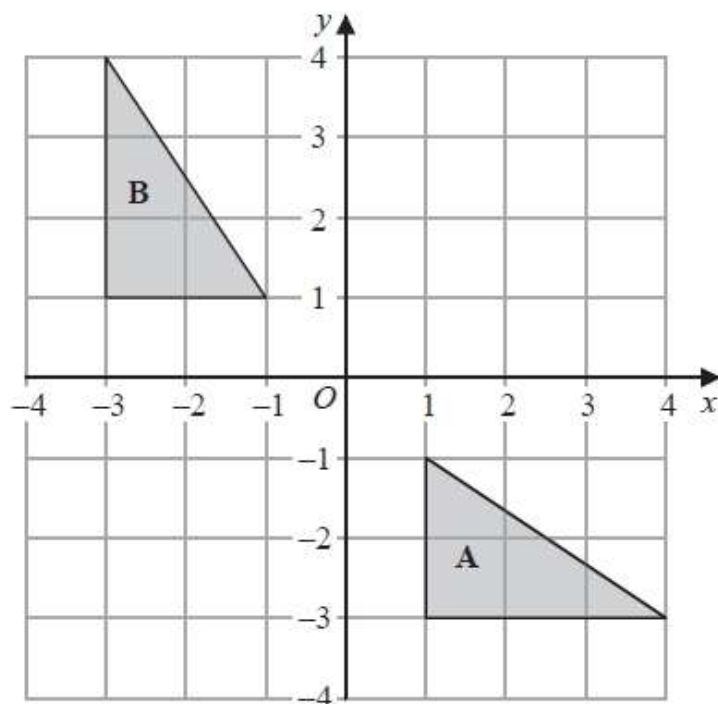
Reflect shape **P** in the line $y = 3$

(Total for question = 2 marks)

Q7. NON-CALCULATOR



(a) On the grid above, reflect the shaded shape in the line with equation $x = -1$



Triangle **A** is a reflection of triangle **B**.

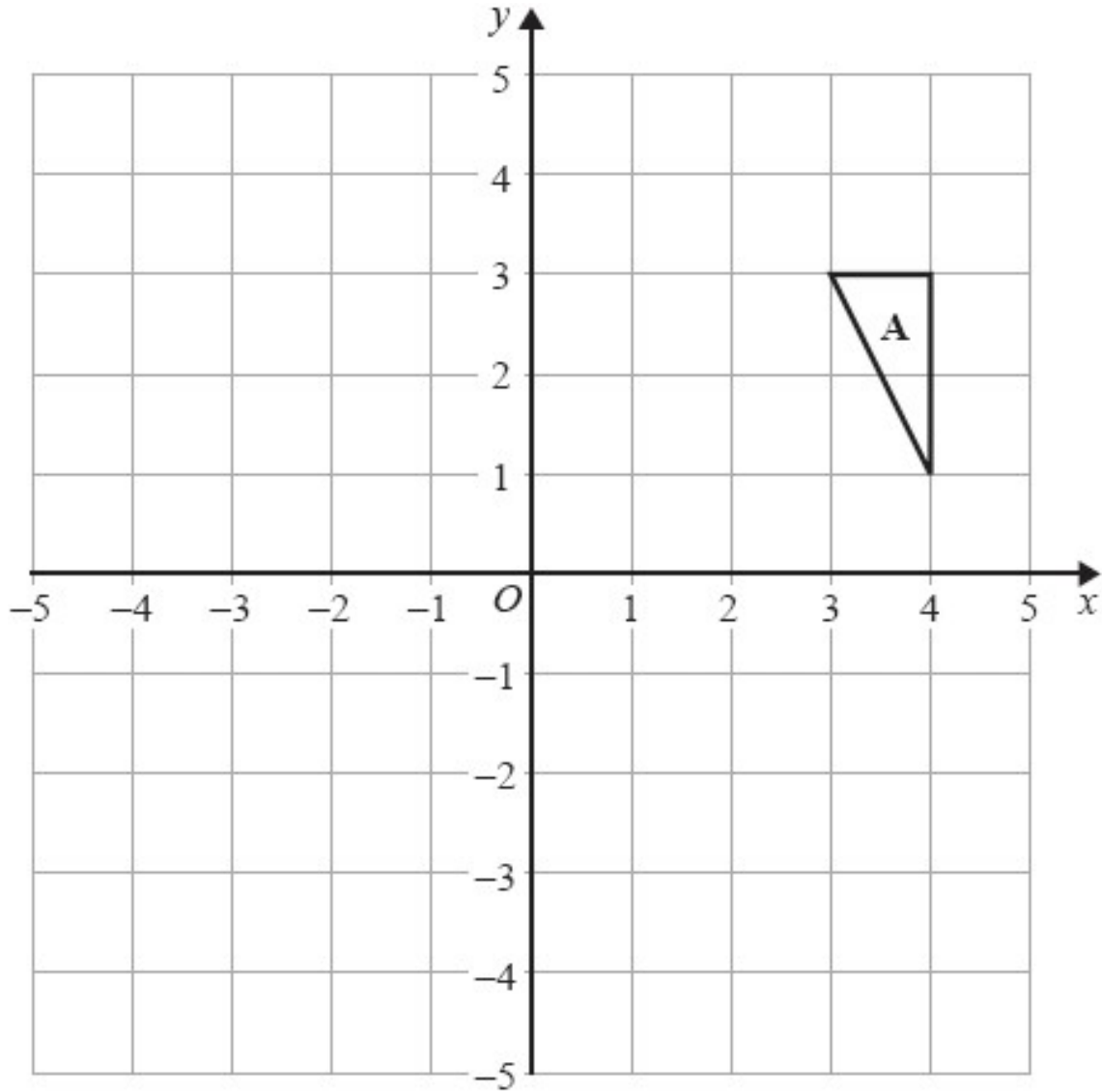
(b) Write down the equation of the line of reflection.

.....

(1)
(Total for question = 3 marks)

Q8. NON-CALCULATOR

The diagram shows triangle **A** drawn on a grid.



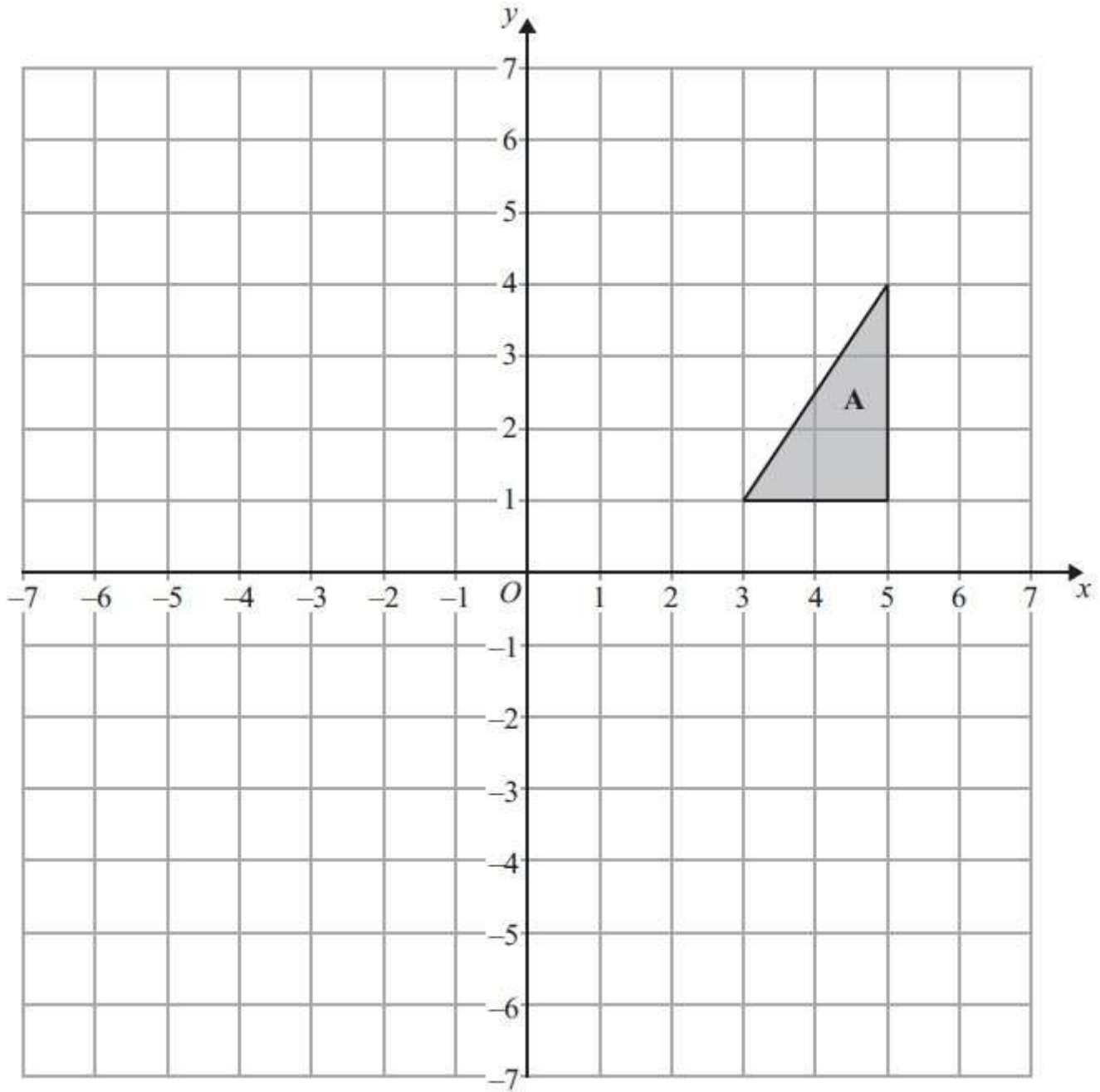
Kyle reflects triangle **A** in the x -axis to get triangle **B**. He then reflects triangle **B** in the line $y = x$ to get triangle **C**.

Amy reflects triangle **A** in the line $y = x$ to get triangle **D**. She is then going to reflect triangle **D** in the x -axis to get triangle **E**.

Amy says that triangle **E** should be in the same position as triangle **C**. Is Amy correct? You must show how you get your answer.

(Total for question = 3 marks)

Q9. NON-CALCULATOR



Triangle **A** is reflected in the x -axis to give triangle **B**.
 Triangle **B** is then reflected in the line $x = 1$ to give triangle **C**.

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

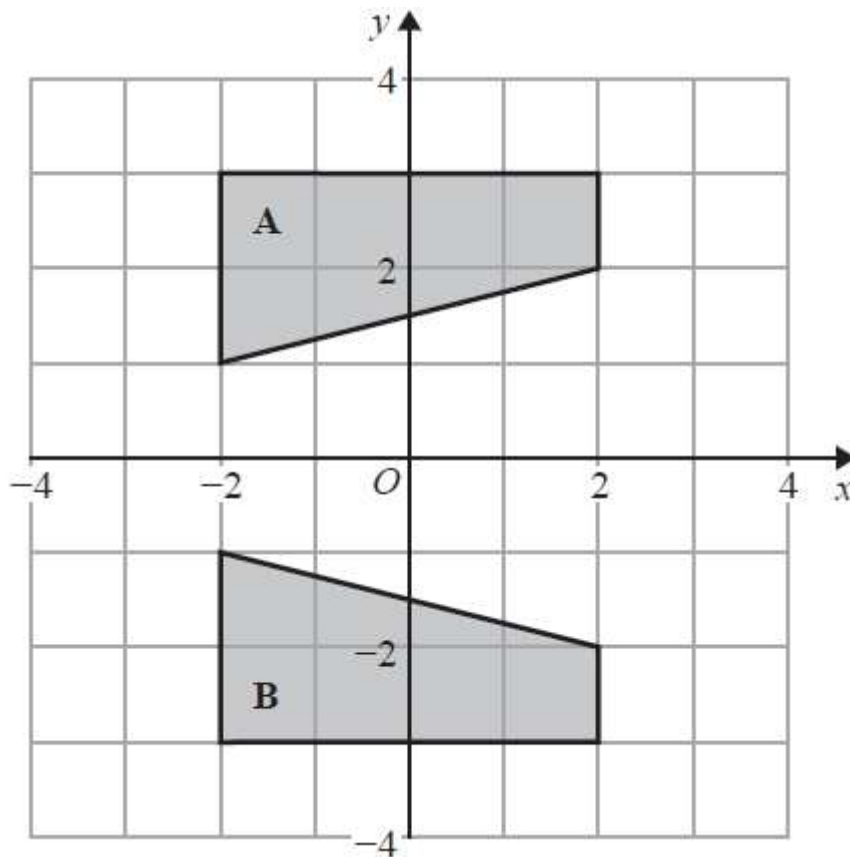
.....

.....

.....

(Total for Question is 3 marks)

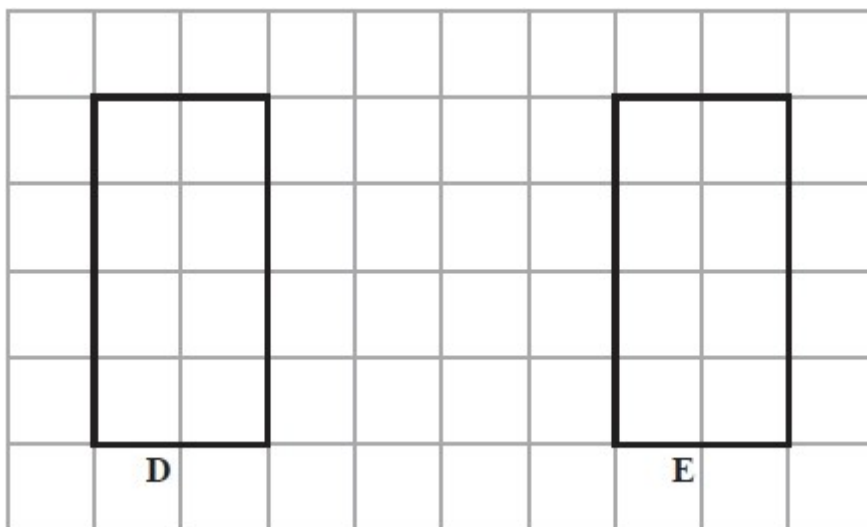
Q10. NON-CALCULATOR



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

(Total for question = 2 marks)

Q11. NON-CALCULATOR



Rectangle **E** is a reflection of rectangle **D**.

- (a) On the grid, draw the mirror line.
Label your mirror line **M**.

(1)

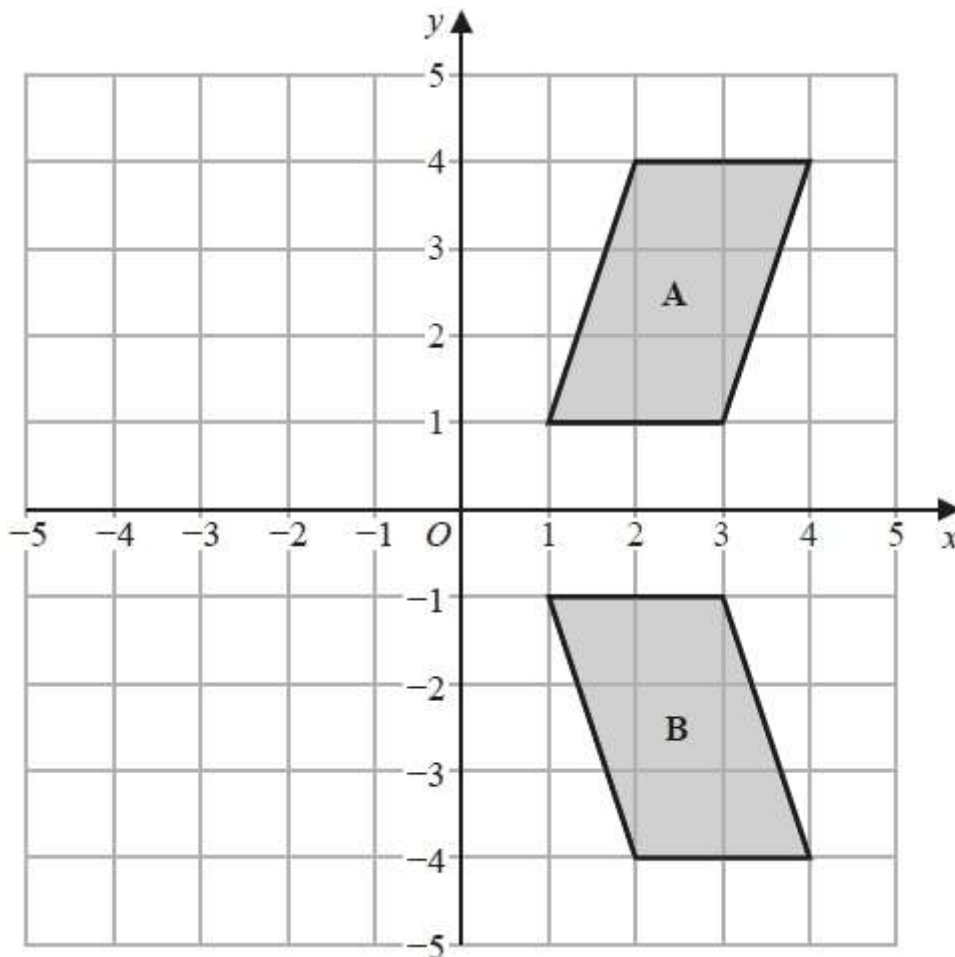
A rectangle has

- a length of 4 cm
- a width of 3 cm.

(b) In the space below, make an accurate drawing of the rectangle.

(2)
(Total for question = 3 marks)

Q12. NON-CALCULATOR

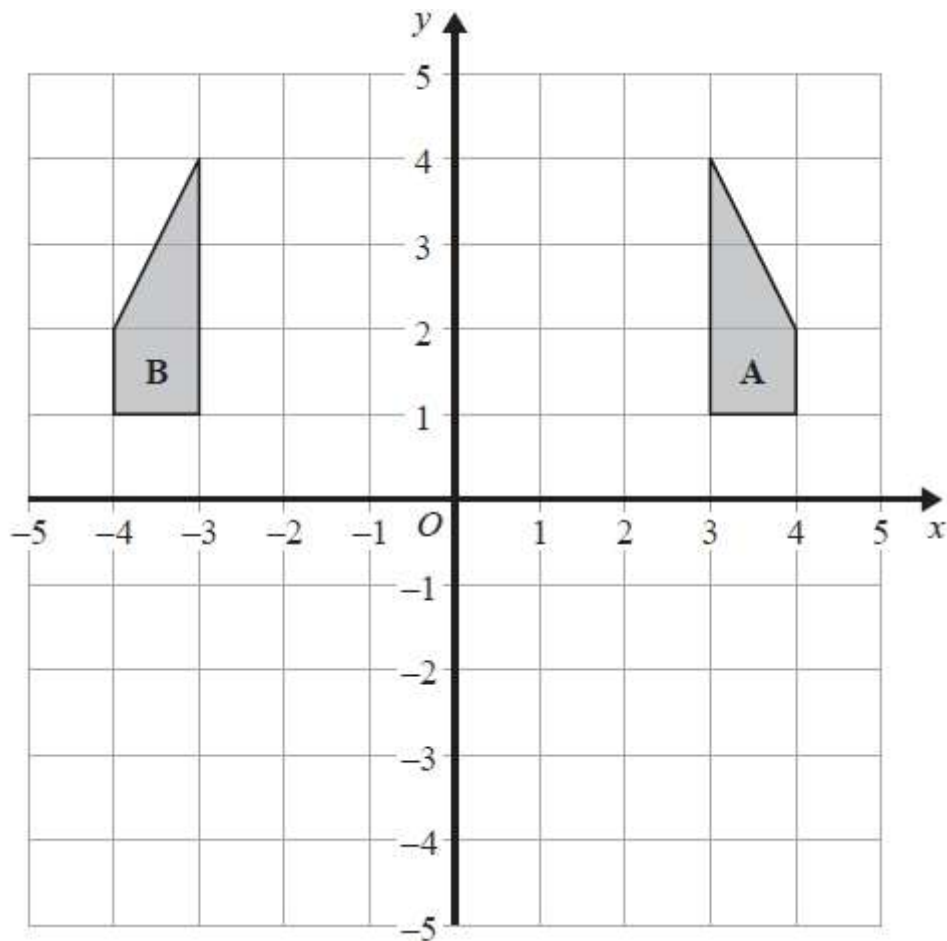


Describe fully the single transformation that maps shape **A** onto shape **B**.

.....

(Total for question = 2 marks)

Q13. NON-CALCULATOR



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

.....
.....

(Total for question = 2 marks)