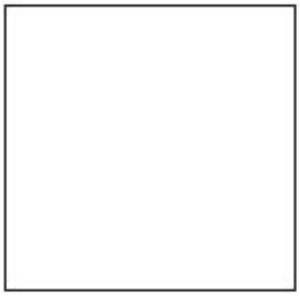
Rotations Past Paper Questions

Q1.

Here is a square.



(a) On the square, draw all the lines of symmetry.

(2)

Here is a rectangle.

(b) Write down the order of rotational symmetry of the rectangle.

.....

(1)

Here is a different rectangle.

Diagram **NOT** accurately drawn

(c) Work out the area of this rectangle.

. . . . . cm^2

(2)

(Total for Question is 5 marks)

Q2.

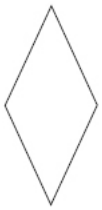
Here is a symbol.

(a) Write down the number of lines of symmetry for this symbol.

.....

(1)

Here is a quadrilateral.



(b) (i) Write down the mathematical name for this quadrilateral.

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(ii) Write down the order of rotational symmetry of this quadrilateral.

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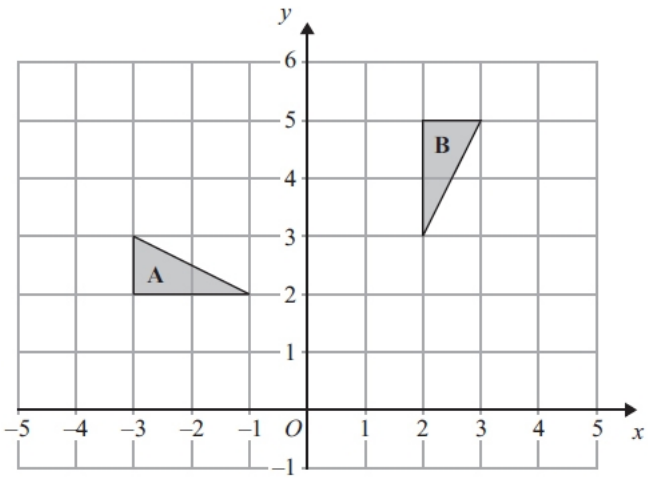
(2)

(Total for Question is 3 marks)

Q3.



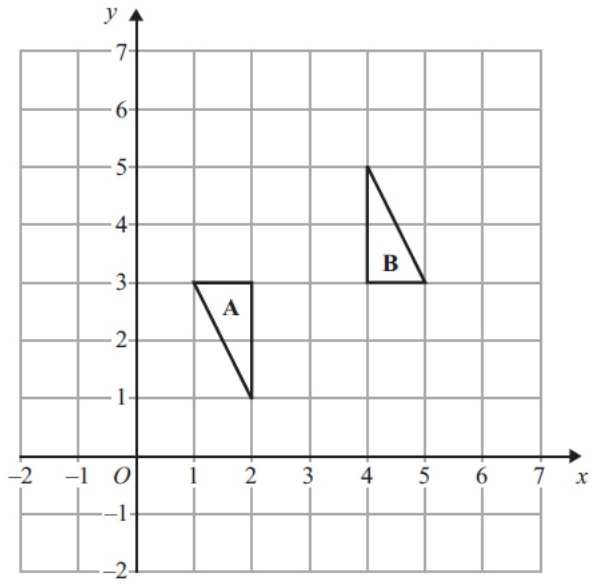
Describe fully the single transformation which maps triangle **A** onto triangle **B.**

. . . . . .

. . . . . .

(Total for Question is 3 marks)

Q4.



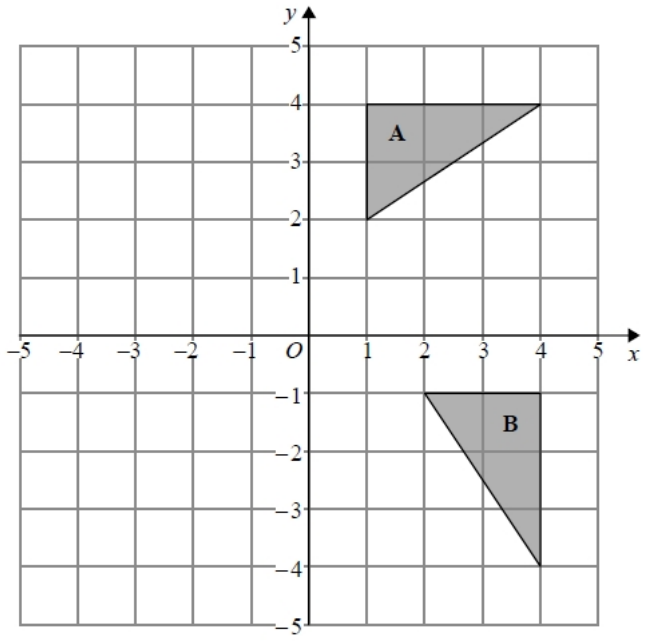
Describe fully the single transformation that maps triangle **A** onto triangle **B**.

.....

.....

(Total for Question is 3 marks)

Q5.



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

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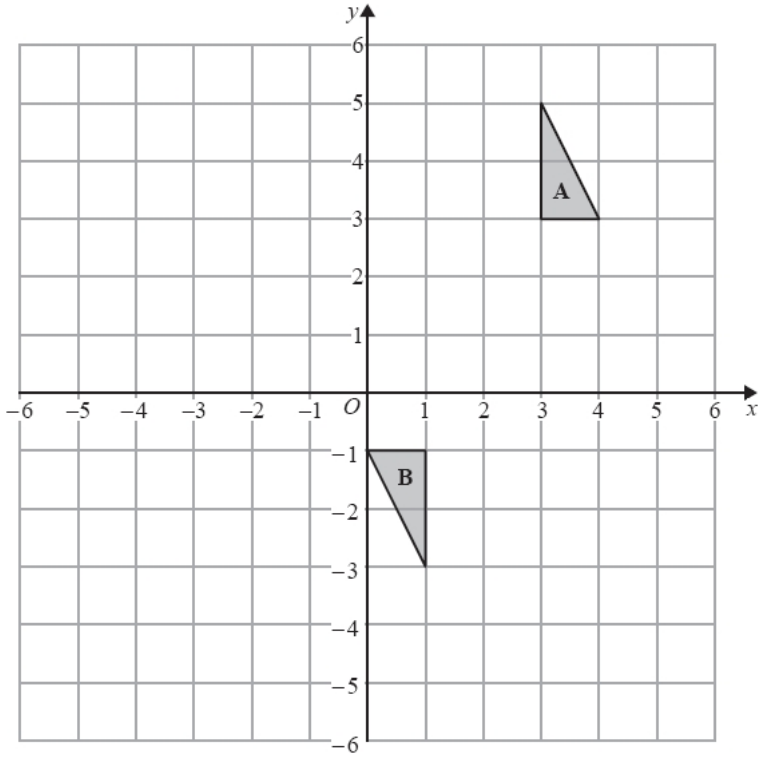
(Total for question = 2 marks)

Q6.



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

.....

.....

.....

(Total for question = 3 marks)

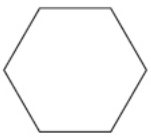
Q7.

Here is a shape.

(a) Draw all the lines of symmetry on this shape.

(2)

Here is a regular hexagon.



(b) Write down the order of rotational symmetry of this regular hexagon.

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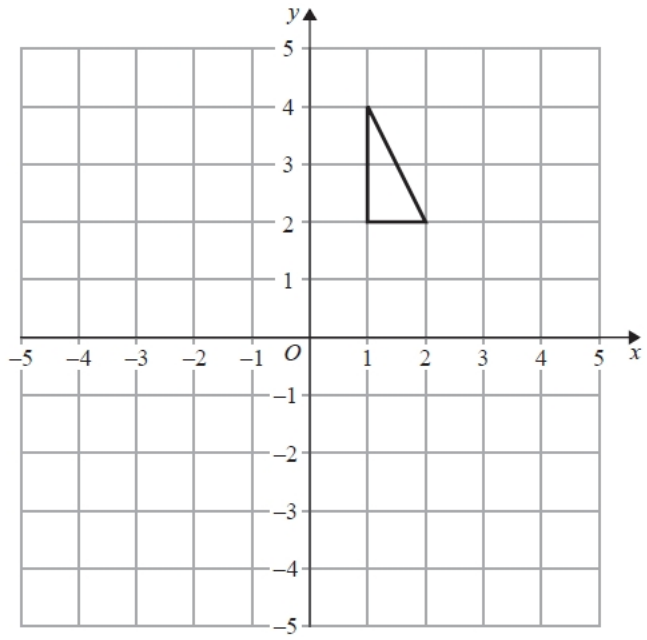
(1)

(Total for Question is 3 marks)

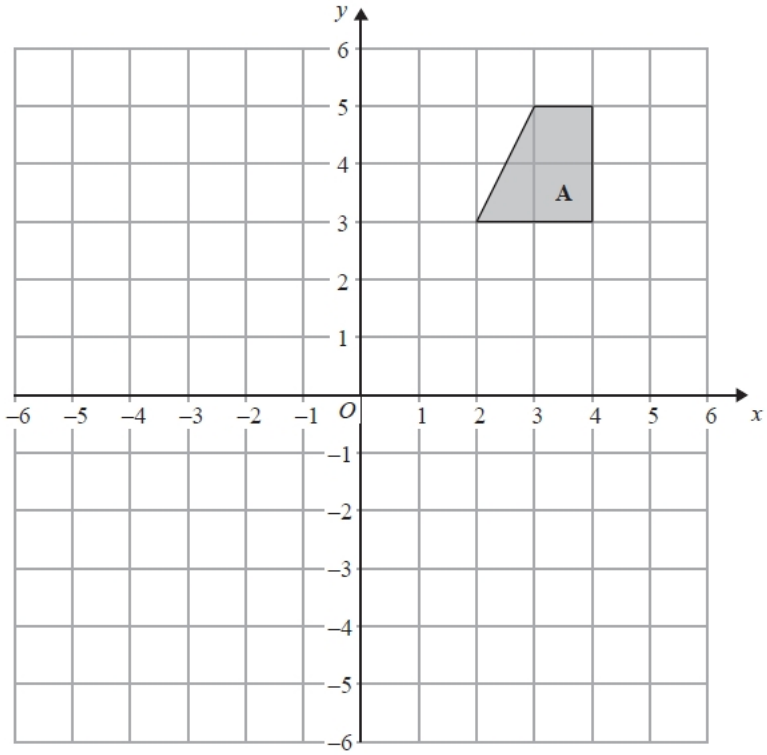
Q8.



On the grid, rotate the triangle 90° clockwise about (0, 0).

(Total for question is 2 marks)

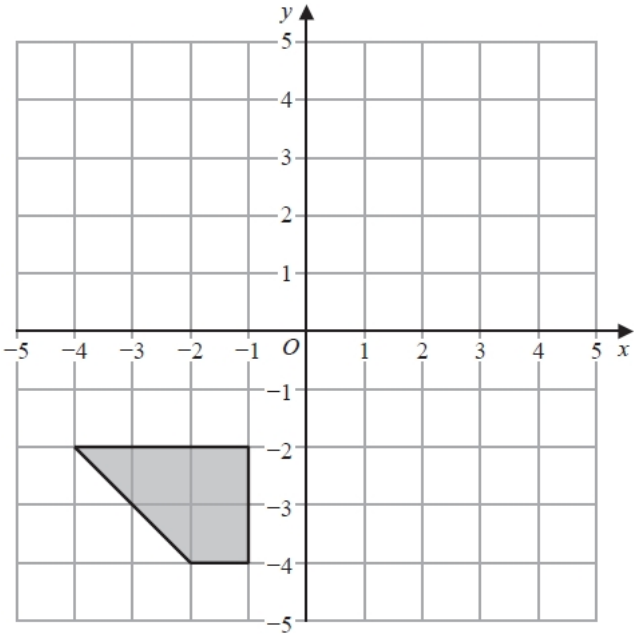
Q9.



On the grid, rotate shape **A** 180° about the point (1, 1).

(Total for Question is 2 marks)

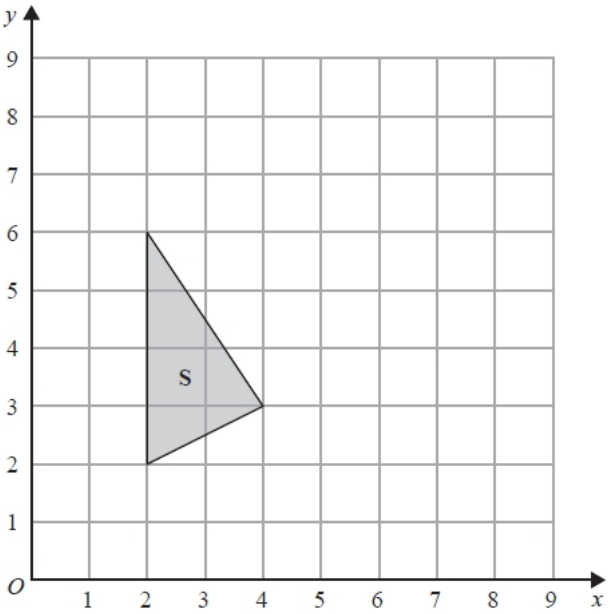
Q10.



Rotate the shaded shape 90° anticlockwise about (0,0)

(Total for question = 2 marks)

Q11.



(a) Rotate shape **S** 90° clockwise, centre (5, 4)
Label your image **T**.

(2)

(b) Describe fully the single transformation that will map shape **T** onto shape **S**.

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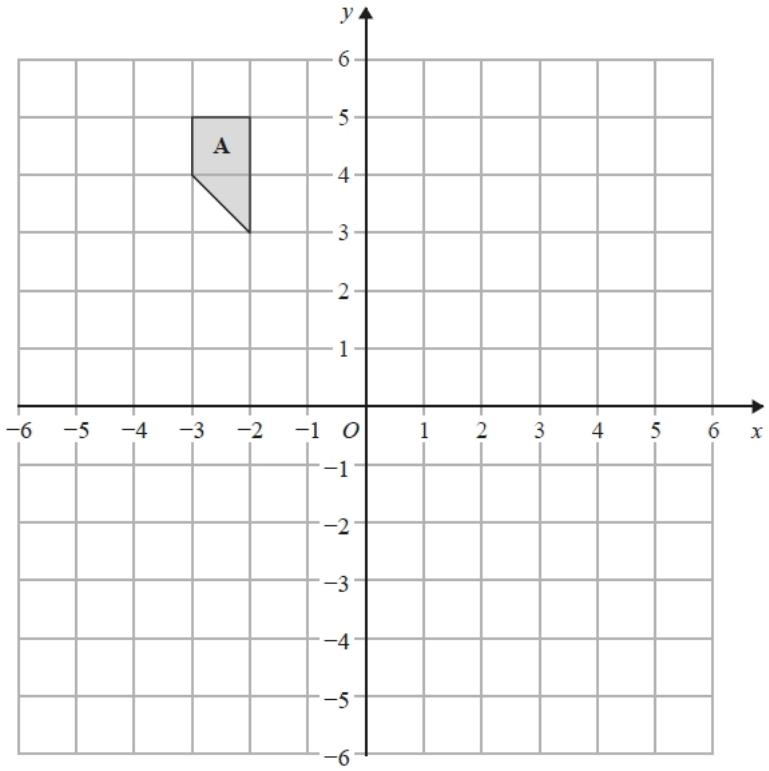
(1)

(Total for question = 3 marks)

Q12.



Rotate shape **A** 180° about (1, 0)

(Total for question = 2 marks)