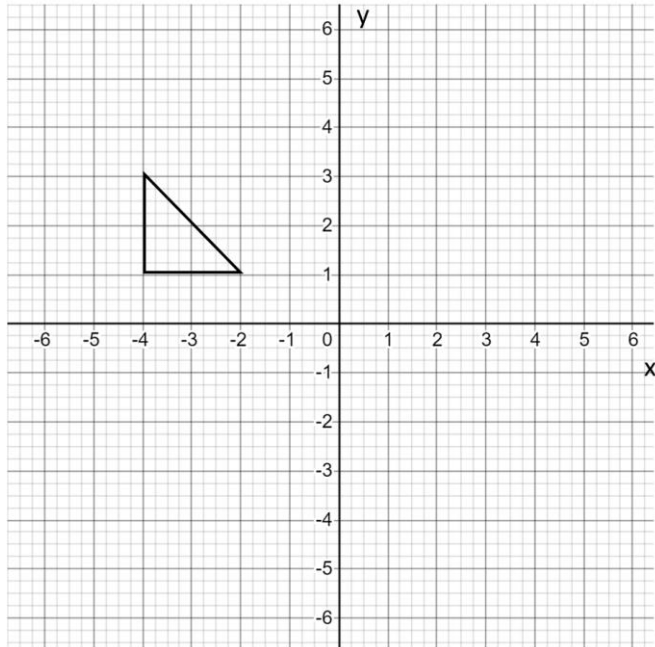


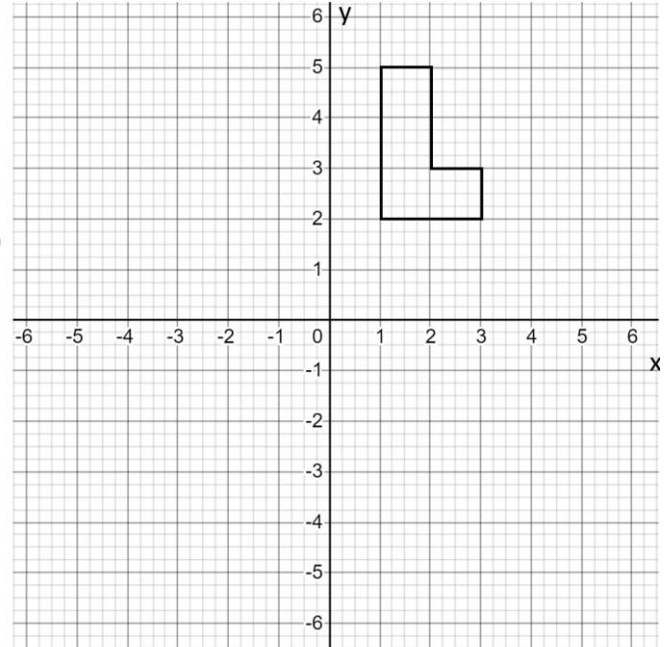
Rotations and Rotational Symmetry Exam Practice



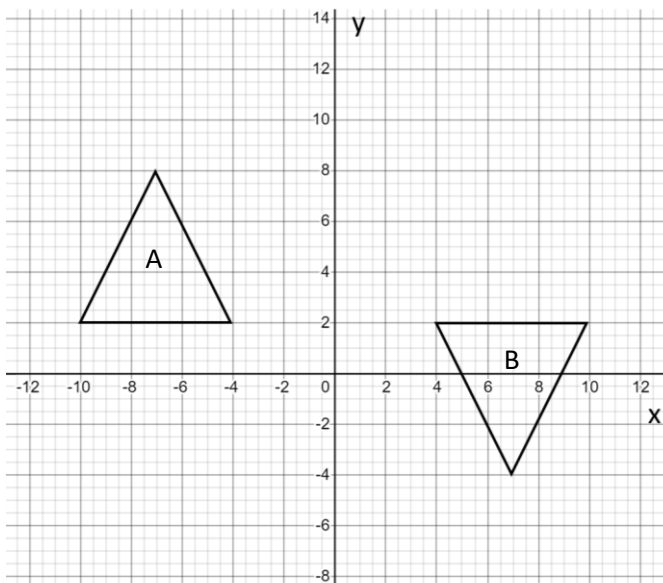
Q1. Rotate the shape below by 270° anti-clockwise about the point $(0,0)$ (2 marks)



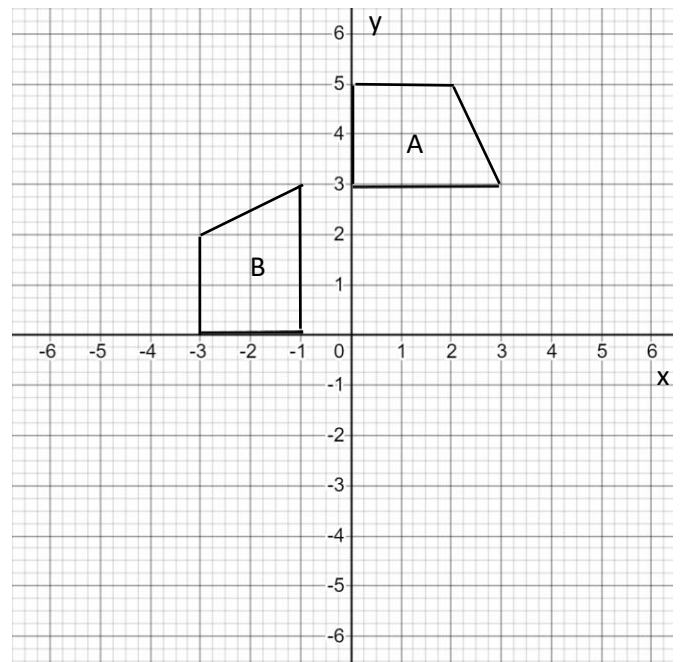
Q2. Rotate the shape below by 180° about the point $(-1,1)$ (2 marks)



Q3. Describe fully the transformation which takes shape B to A. (3 marks)



Q4. Describe fully the transformation which takes shape A to B. (3 marks)





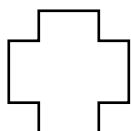
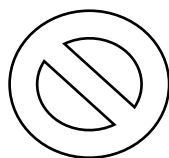
Q5. State the order of rotational symmetry of the shape:



Explain briefly why you have chosen your answer.

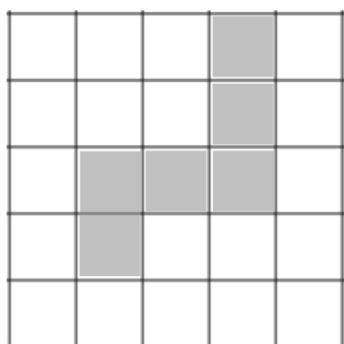
(2 marks)

Q6. State the order of rotational symmetry of the following shapes:



(3 marks)

Q7. Shade 1 extra box on the diagram below so that the shaded shape has order of rotational symmetry 2.



(1 mark)

Q8. A regular polygon has 20 sides. Write down the order of rotational symmetry of the shape.

(1 mark)

Q9. Complete the table:

Shape	Trapezium	Rhombus	Kite	Rectangle
Order of rotational symmetry				

(3 marks)

Q10. (i) Draw a shape with order of rotational symmetry equal to 5.

(ii) Draw a shape with order of rotational symmetry equal to 1.

(1 mark)