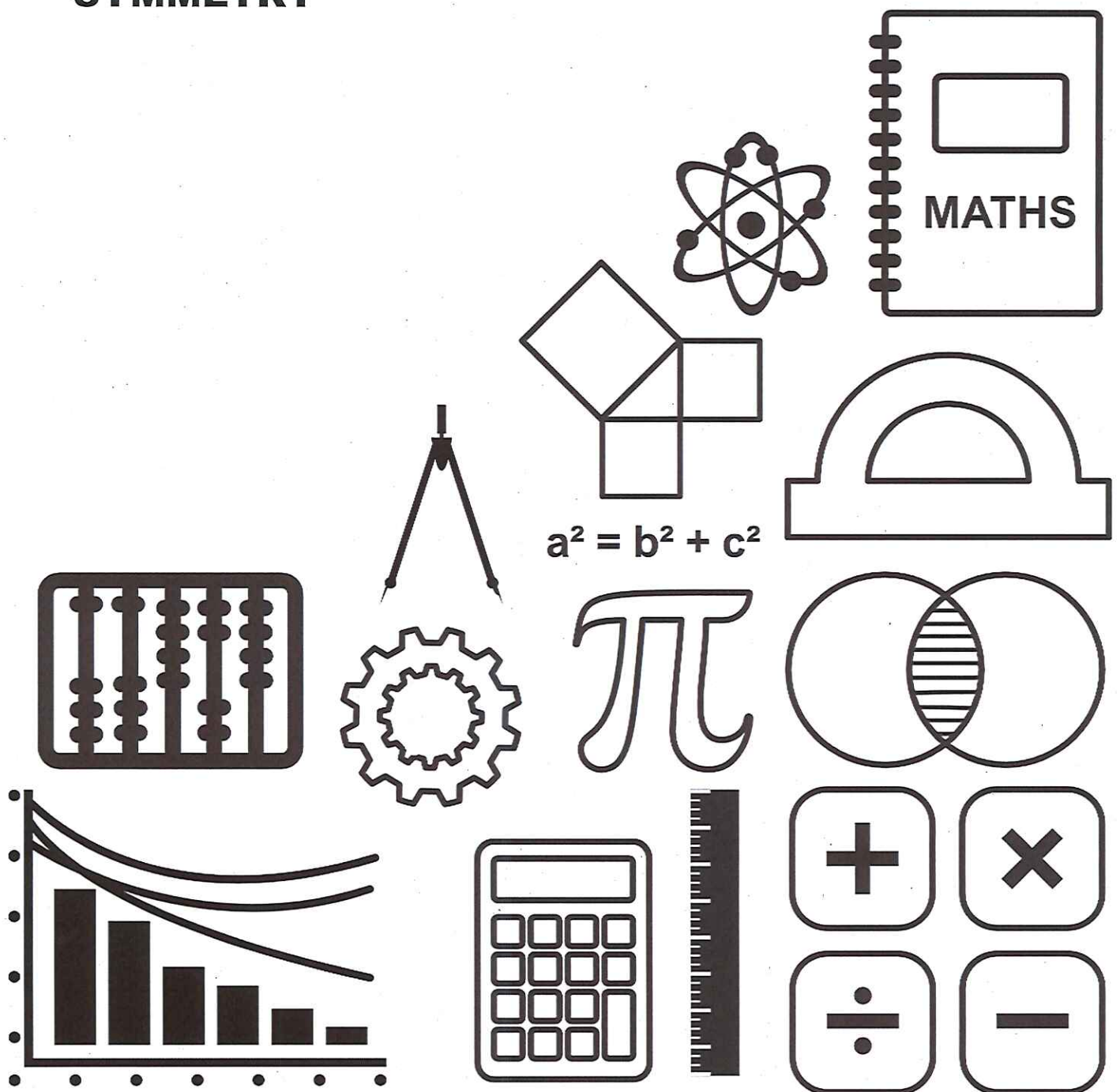


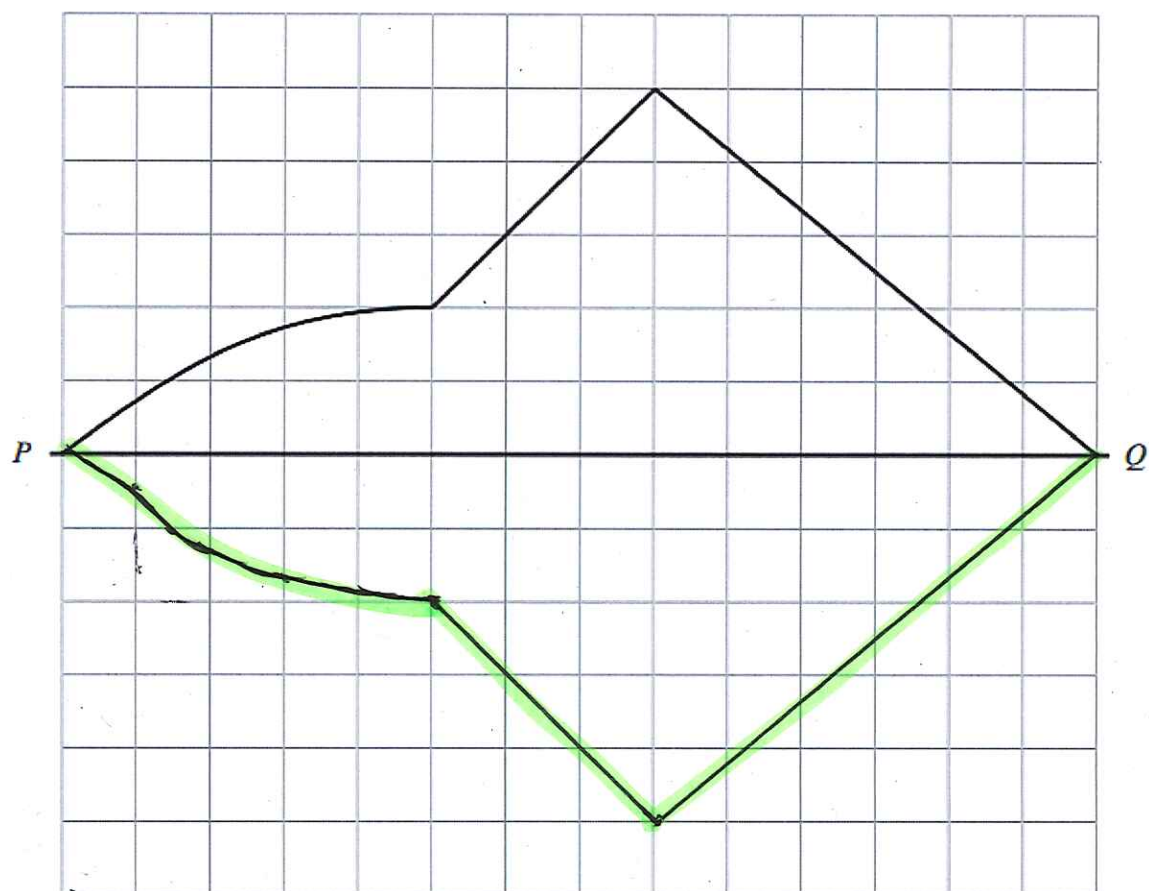
MATHSDIY

GCSE TOPIC BOOKLET SYMMETRY

SOLUTIONS



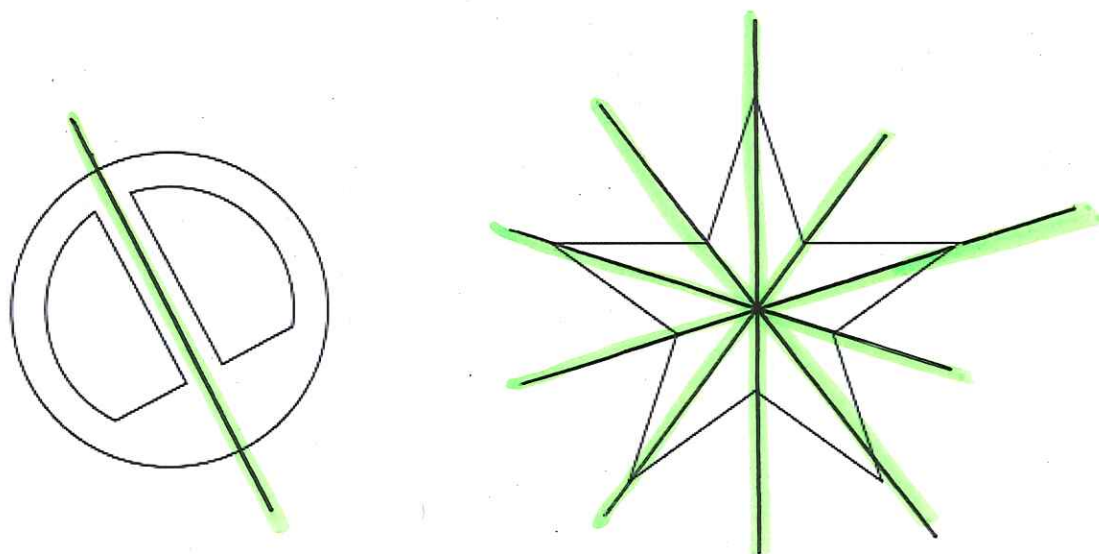
1. Complete the following figure so that it is symmetrical about the line PQ .



[2]

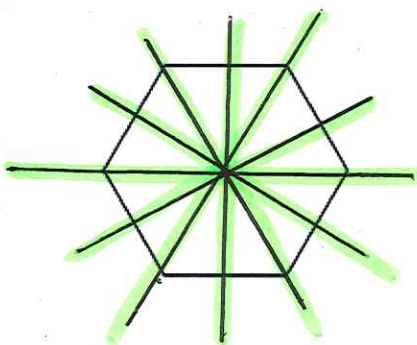
2. Draw all the lines of symmetry on the following shapes.

[2]



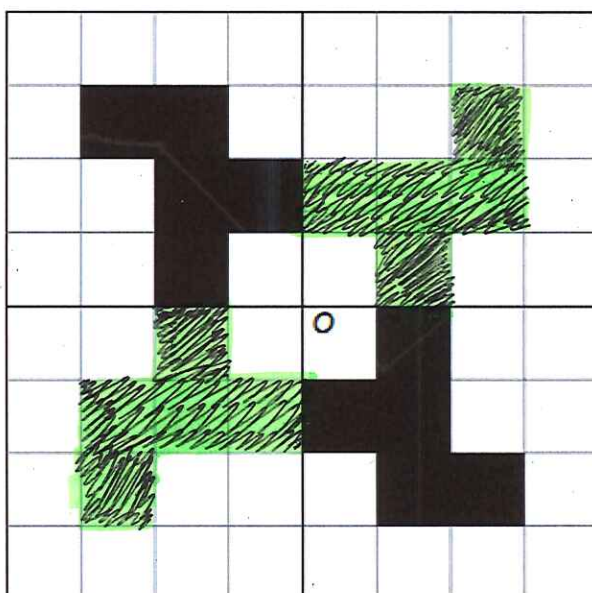
3. (a) Draw all the lines of symmetry on the following diagram.

[2]



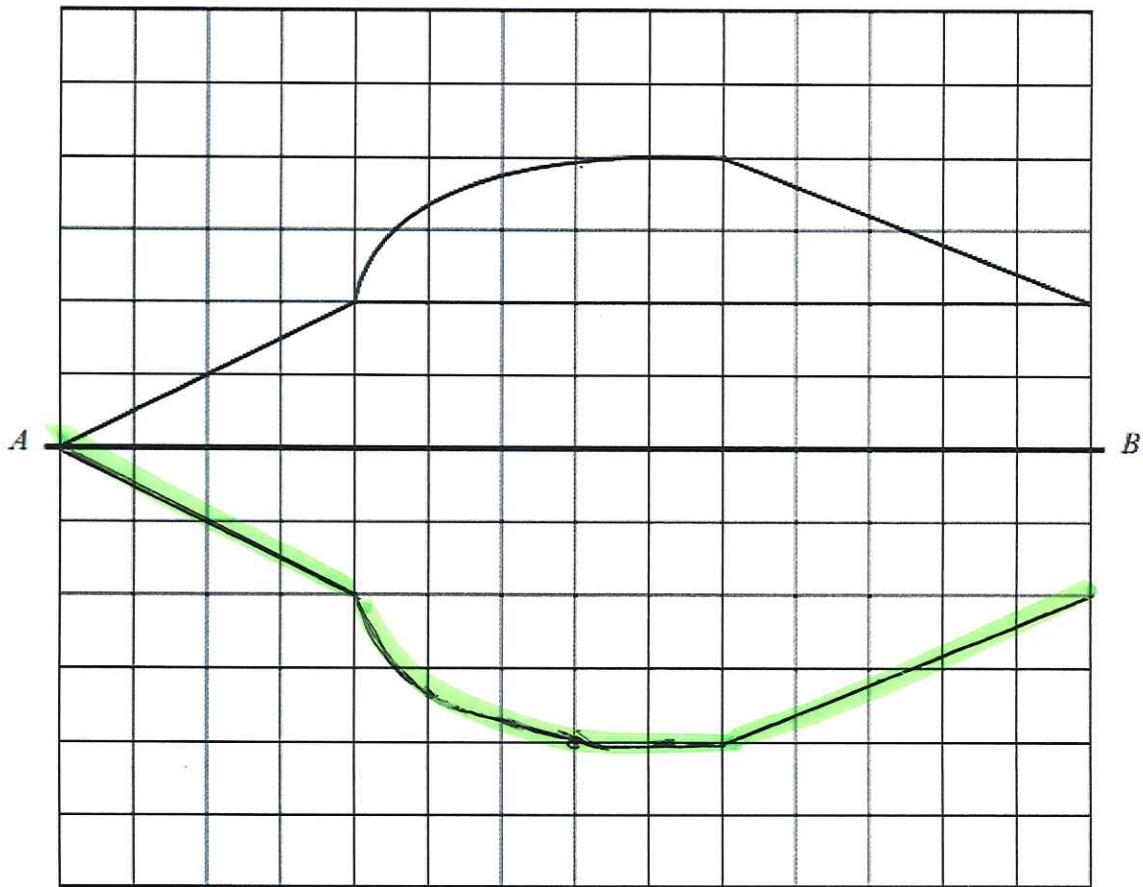
- (b) Draw two more shapes so that the completed pattern has rotational symmetry of order 4 about O.

[2]



4. Copy the shape below so that AB is a line of symmetry.

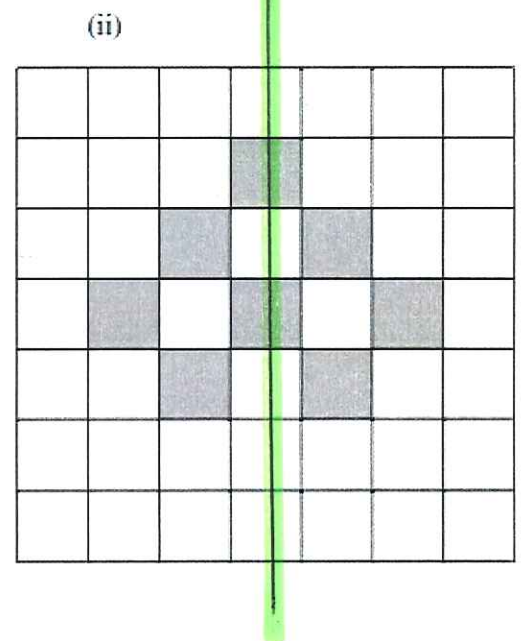
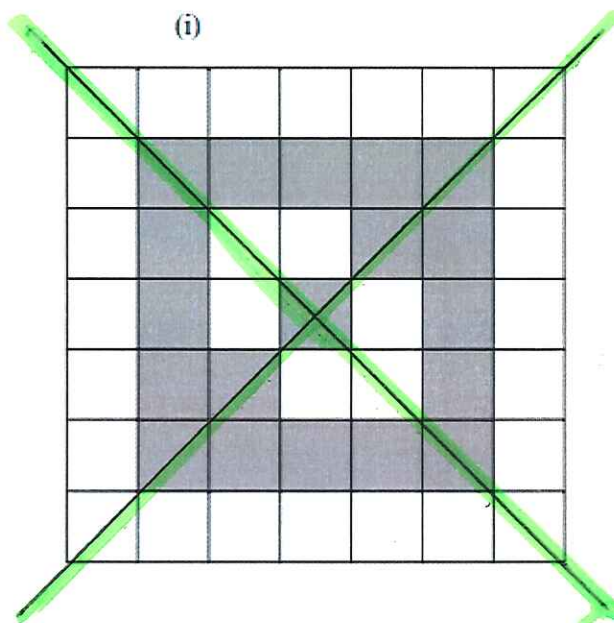
[2]



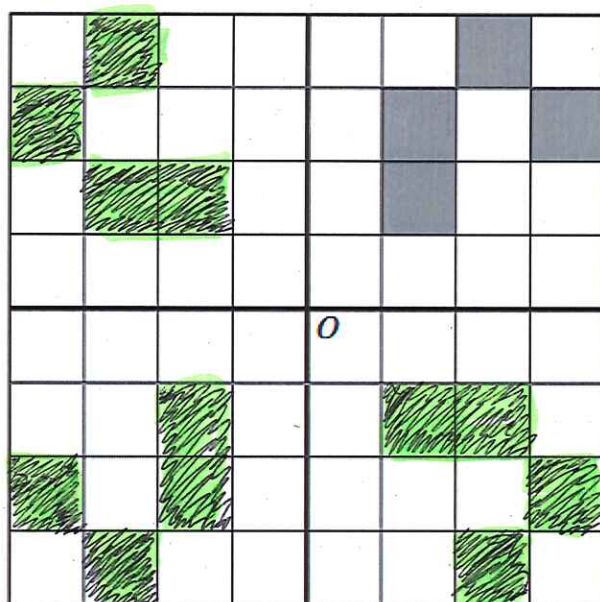
5.

- (c) Draw all the lines of symmetry on each of the following patterns.

[3]



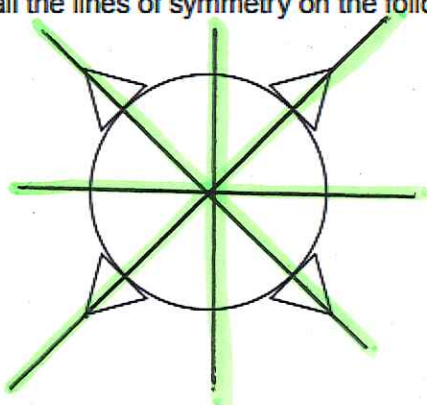
6. Draw patterns like the given one in each of the other 3 sections so that the completed pattern has rotational symmetry of order 4 about O .



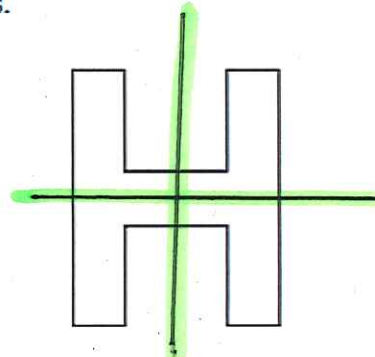
7. Draw all the lines of symmetry on the following shapes.

[2]

(i)



(ii)



Write down the order of rotational symmetry of the two shapes

[2]

(i)

4

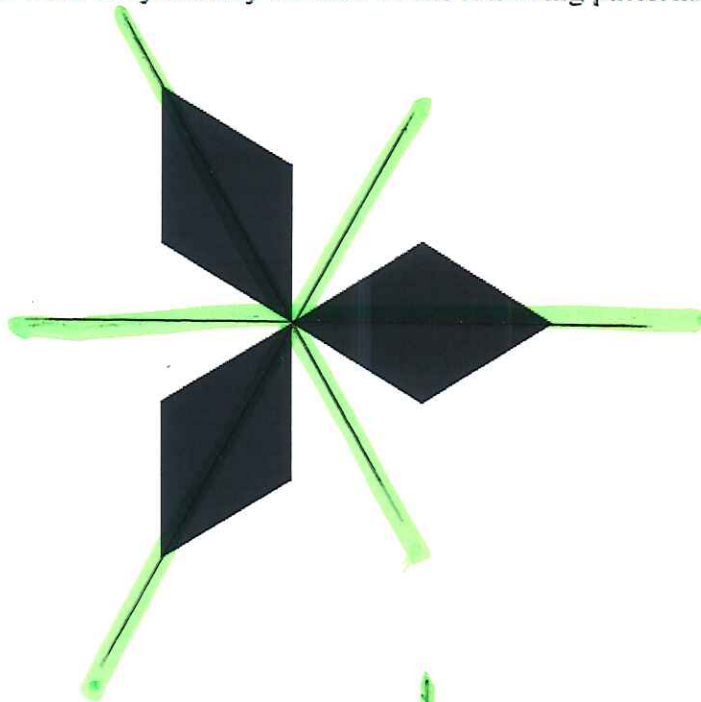
(ii)

2

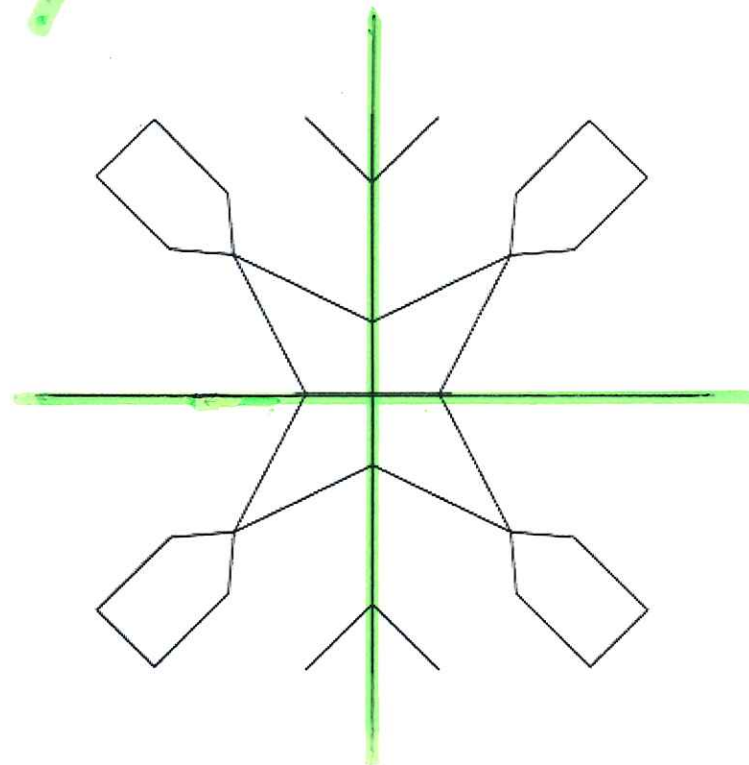
8. Draw all the lines of symmetry on each of the following patterns.

[3]

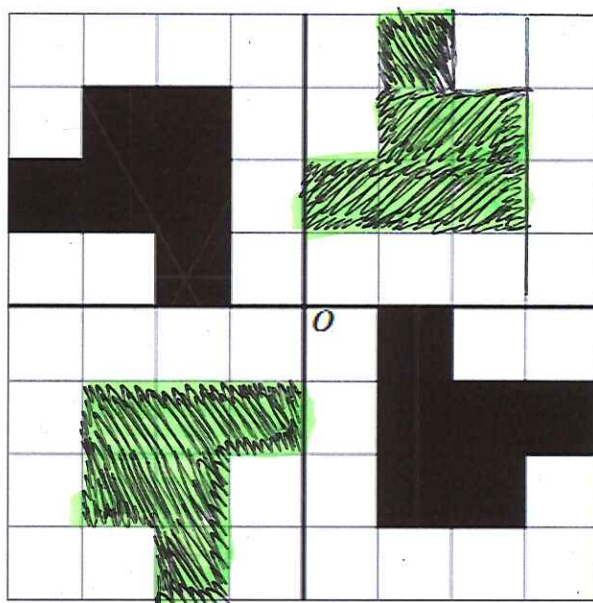
(i)



(ii)



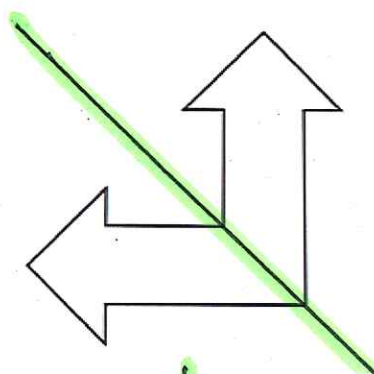
9. (a) Draw two more shapes so that the completed pattern has rotational symmetry of order 4 about O .



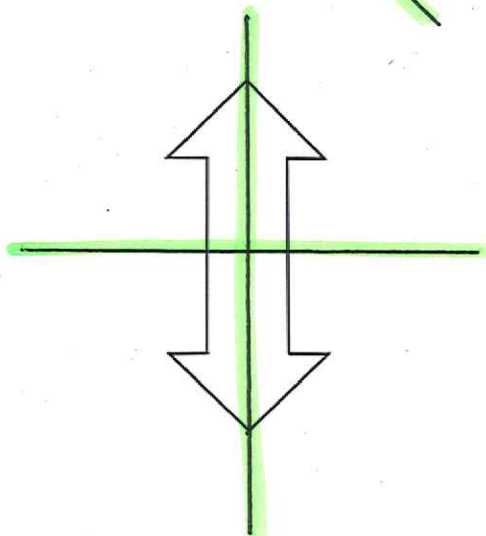
[2]

- (b) Draw all the lines of symmetry on the following two diagrams.

(i)



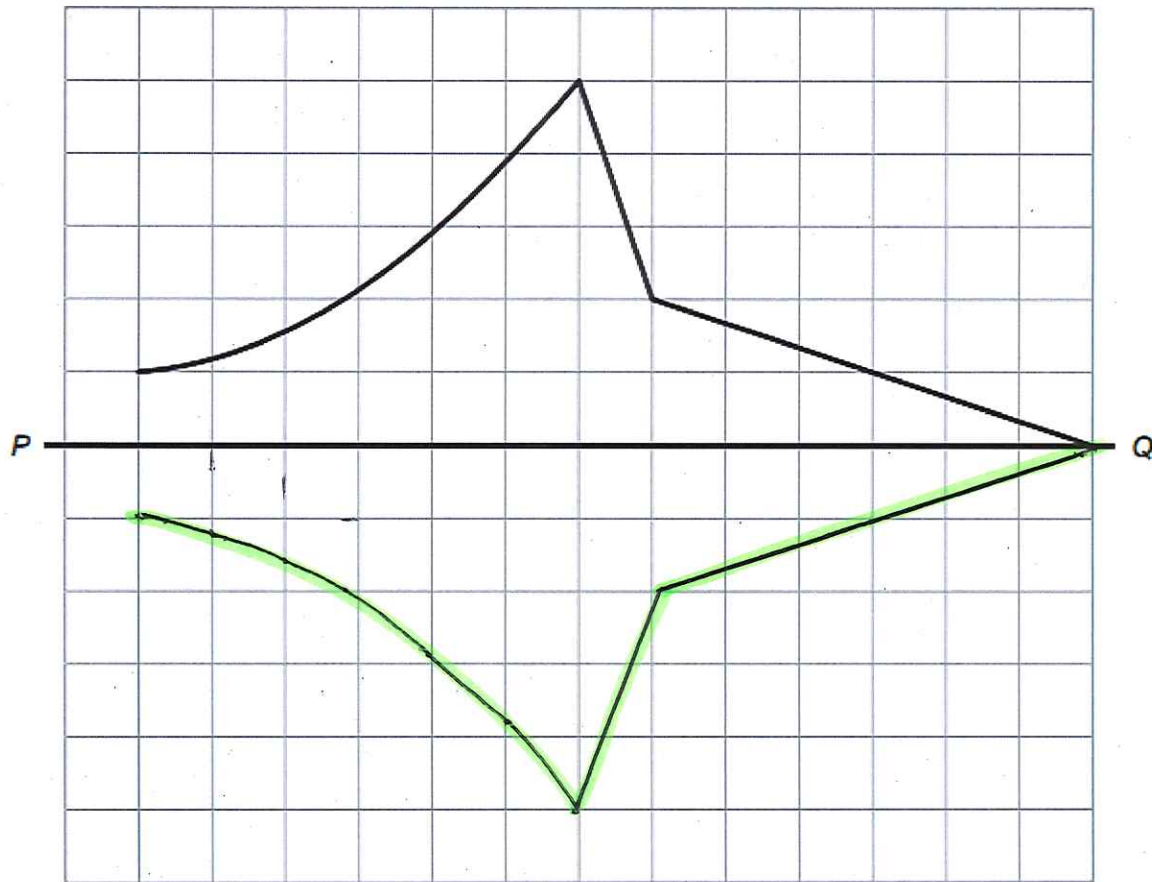
(ii)



[2]

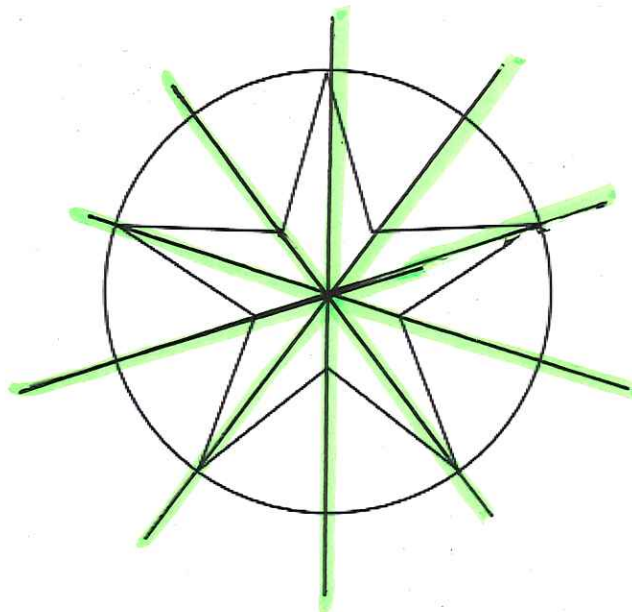
10. Complete the following figure so that it is symmetrical about the line PQ .

[2]

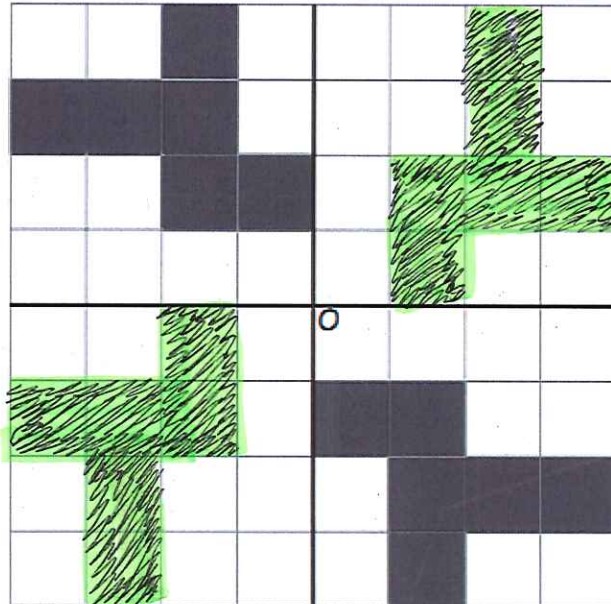


11. Draw all the lines of symmetry on the following diagram.

[2]



12. Draw two more shapes so that the completed pattern has rotational symmetry of order 4 about O. [2]



13. Complete the following figure so that it is symmetrical about the line AB .

[2]

