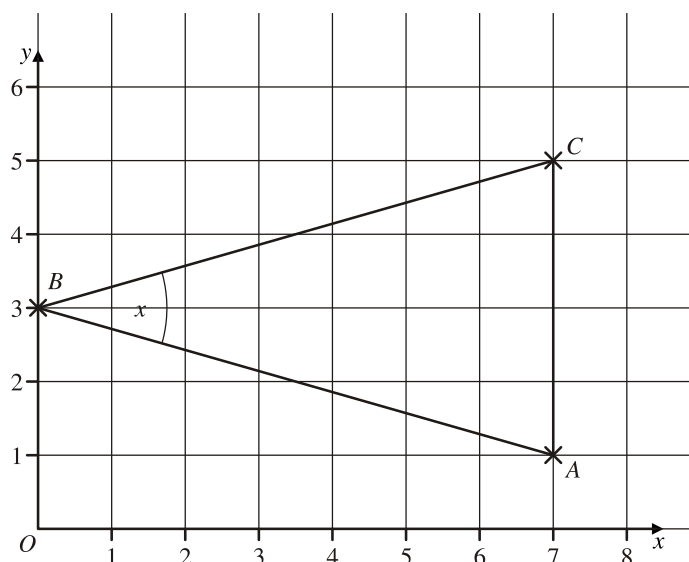


### Question 1

The diagram shows a triangle  $ABC$  on a centimetre grid.



(a) Write down the coordinates of the point

- (i)  $A$ , (....., .....)  
 (ii)  $B$ . (....., .....)  
**(2 marks)**

(b) Write down the special name for triangle  $ABC$ . **(1 mark)**

(c) Work out the area of the triangle  $ABC$ .  
 .....  $\text{cm}^2$   
**(1 mark)**

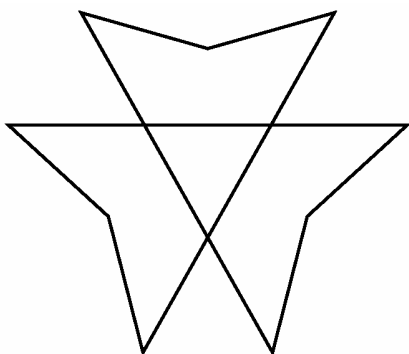
(d) Measure the length of the line  $AB$ .  
 Give your answer in millimetres.  
 ..... mm  
**(1 mark)**

(e) (i) Measure the size of angle  $x$ . ..... $^\circ$   
 (ii) Write down the special name that is given to this type of angle. **(2 marks)**

(f) Draw **one** line of symmetry on the triangle. **(1 mark)**

**Question 2**

- (a) Write down the order of rotational symmetry of the shape.



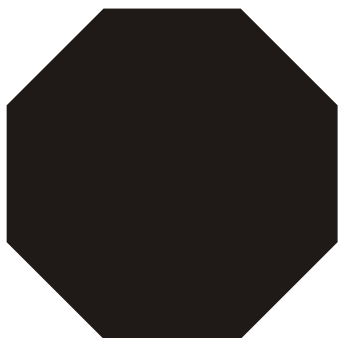
- (b) On the diagram mark and label
- i) an acute angle with a letter **A**,
  - ii) a reflex angle with a letter **B**,
  - iii) an obtuse angle with a letter **C**.

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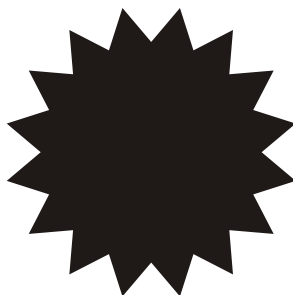
**Question 3**

Write down the order of rotational symmetry for each of these shapes.

**i)**



**ii)**



**iii)**

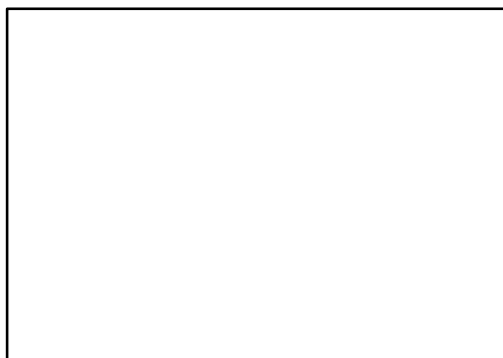


**(3 marks)**

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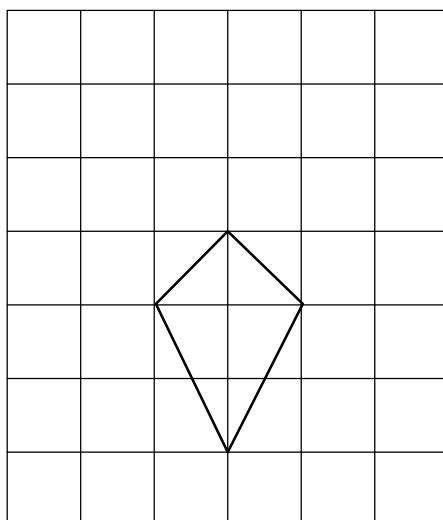
**Question 4**

- (a)** Draw in all the lines of symmetry for this rectangle. **(2 marks)**

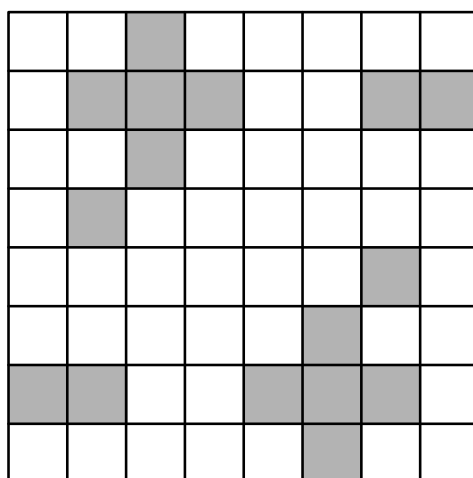


- (b)** Write down the name of a four sided shape that has rotational symmetry of order 4. **(1 mark)**

- (c)** On the grid below, show how this kite will tessellate. You should draw at least 6 kites. **(2 marks)**



**Question 5**



The crossword pattern above has rotational symmetry.

**(a)** Mark with an X the centre of rotation of this crossword pattern.

**(1 mark)**

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

**(1 mark)**

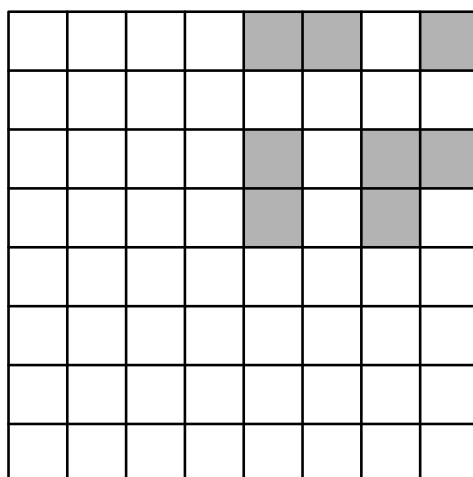
A different crossword pattern is to be drawn.

It will have rotational symmetry of order 4.

The crossword pattern has been started.

**(c)** Complete the crossword pattern.

**(3 marks)**

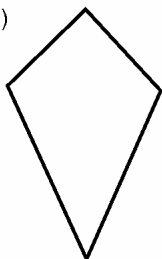


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**Question 6**

Draw in all the lines of symmetry for each of these shapes

(i)



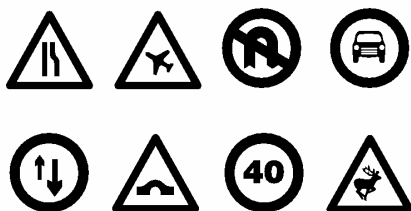
(ii)



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**Question 7**

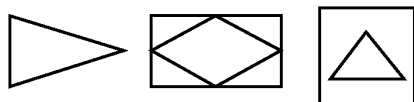
Draw a circle around each of the signs which have line symmetry.



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**Question 8**

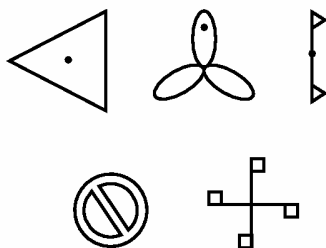
Draw in all the lines of symmetry on each of the following flags.



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**Question 9**

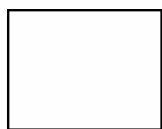
Draw a circle around each of the shapes that have rotational symmetry.



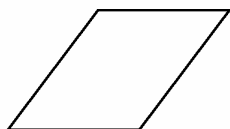
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**Question 10**

(a) Draw in all the lines of symmetry on the following shapes.



*Rectangle*



*Parallelogram*

(b) Write down the order of rotational symmetry for the

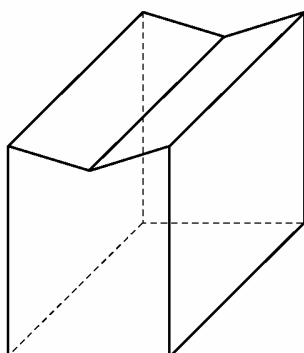
- i) rectangle
- ii) parallelogram

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**Question 11**

The diagram represents a prism.

Draw in one plane of symmetry of the prism on the diagram.

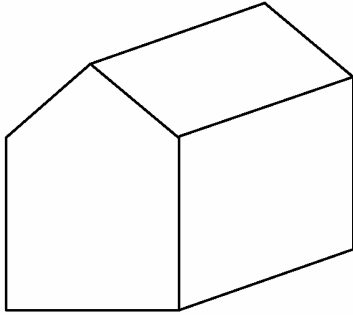




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**Question 12**

Draw in one plane of symmetry on this shape.

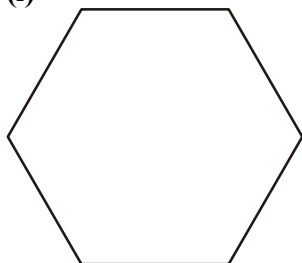


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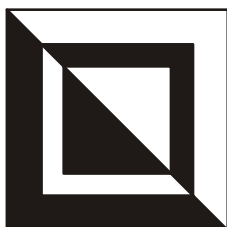
**Question 13**

**(a)** On these shapes draw in all lines of symmetry.

**(i)**



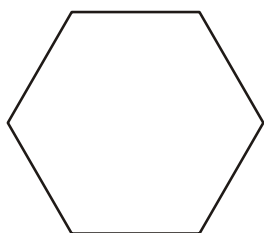
**(ii)**



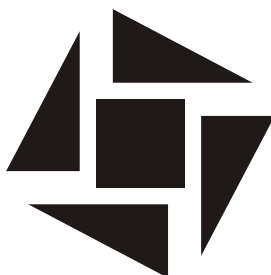
**(2 marks)**

**(b)** Write down the order of rotational symmetry for these shapes.

**(i)**

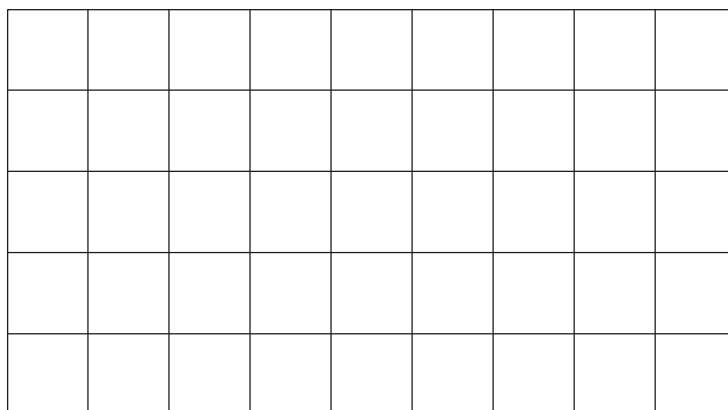


**(ii)**



**(2 marks)**

**(c)** On the grid below draw a shape with 2 lines of symmetry **and** rotational symmetry of order 2.



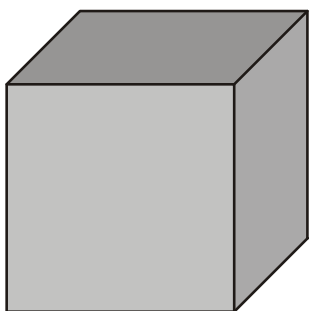
**(2 marks)**

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**Question 14**

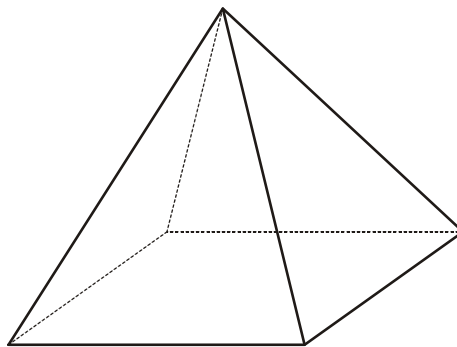
Draw in one plane of symmetry for each of these shapes.

**(i)**



cube

**(ii)**



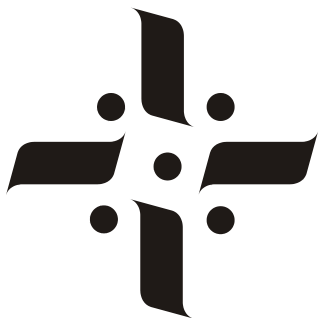
square based pyramid

**(4 marks)**

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**Question 15**

Write down the order of rotational symmetry for each of these shapes.



(i) .....



(ii) .....

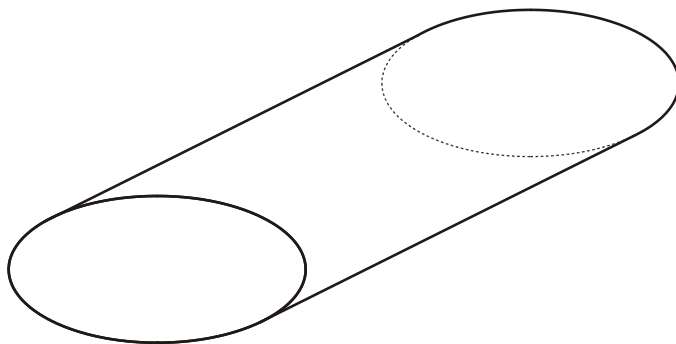
**(2 marks)**

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**Question 16**

The diagram shows a prism.

Draw one plane of symmetry of the prism on the diagram.



**(2 marks)**