

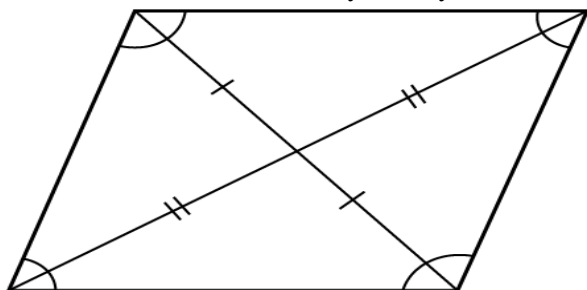
### EXERCISE 17C

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1. How many lines of symmetry does a rhombus have?

**Solution:**

A rhombus has two lines of symmetry.



2. What is the order of rotational symmetry of a rhombus?

**Solution:**

The number of times a shape appears exactly the same during full rotation is called the order of rotational symmetry.

The order of rotational symmetry of a rhombus is 2.

3. Show that each of the following figures has two lines of symmetry and a rotational symmetry of order 2.

(i)



(ii)



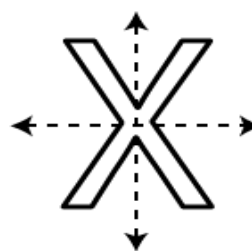
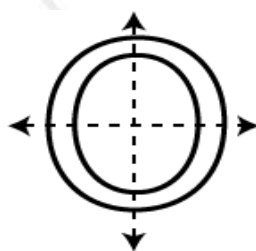
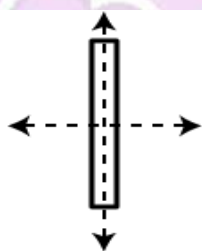
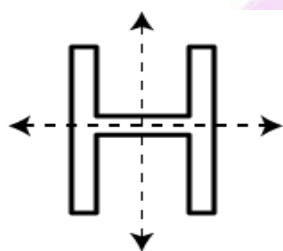
(iii)



(iv)



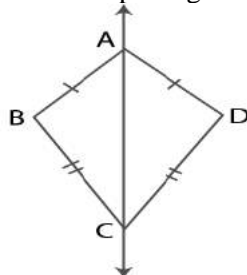
**Solution:**



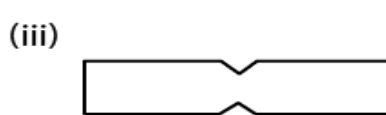
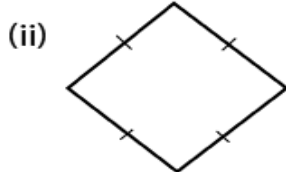
4. Name a figure that has a line of symmetry but does not have any rotational symmetry.

**Solution:**

A kite shaped figure has one line of symmetry and no rotational symmetry.



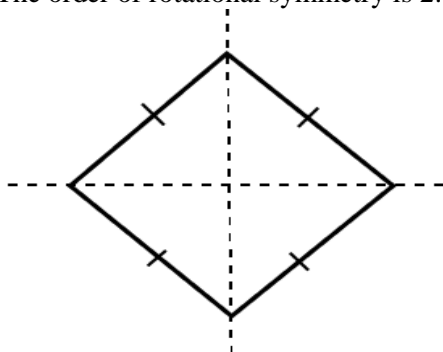
5. In each of the following figures, draw all possible lines of symmetry and also write the order of rotational symmetry:



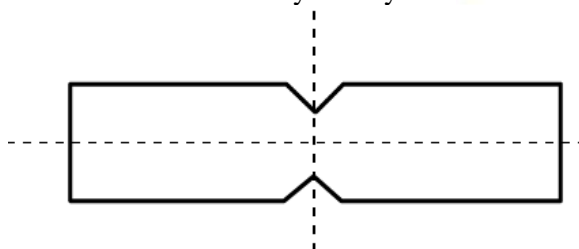
**Solution:**

(i) No line of symmetry  
The order of rotational symmetry is 3.

(ii) 2 line of symmetry  
The order of rotational symmetry is 2.



(iii) 2 line of symmetry  
The order of rotational symmetry is 2.



(iv) No line of symmetry  
The order of rotational symmetry is 0.

(v) 1 line of symmetry  
The order of rotational symmetry is 0.

