

## ST. LAWRENCE HIGH SCHOOL

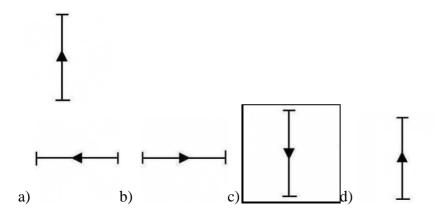
## TESE

## A JESUIT CHRISTIAN MINORITY INSTITUTION

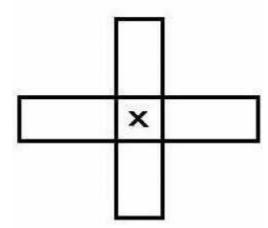
Sub: Algebra Geometry Class: 7 Date: 08. 06.20 Duration: 40 min Worksheet Solution 26 Full Marks: 15 ROTATIONAL SYMMETRY

## **Choose the Correct options:**

1) In the figure below, shows the original position of letter I. Which of the following figures shows the rotational symmetry of letter I when it is rotated through 180°?

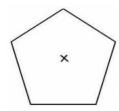


2) The order of rotational symmetry of the given figure is \_\_\_\_\_.

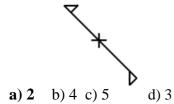


d) 4

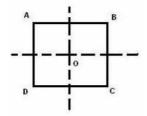
- a) 2 b) 3 c) 5
- 3) The order of rotational symmetry of an equilateral triangle is \_\_\_\_\_.
- a) 5 b) 2 c) 3 d) 4
- 4) The order of rotational symmetry of the given figure is \_\_\_\_\_.

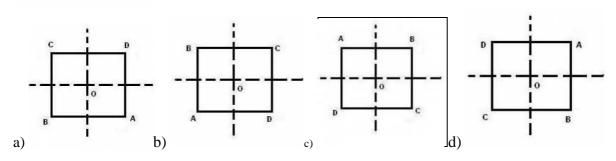


- a) 2 b) 4 c) 3 **d) 5**
- 5) An isosceles triangle has rotational symmetry of order \_\_\_\_\_.
- a) 4 **b) 0** c) 2 d) 3
- 6) The order of rotational symmetry of the given figure is \_\_\_\_\_.

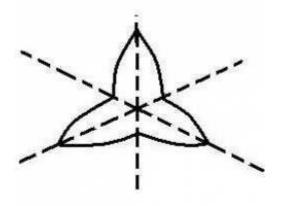


7) In the figure below, ABCD is a square. Which of the following figures shows the rotational symmetry of the given square when it is rotated through 360°?





8) The order of rotational symmetry of the given figure is \_\_\_\_\_.

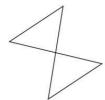


- **a)** 3 **b)** 2 **c)** 6 **d)** 4
- 9) Which of the following letters does not have a line symmetry, but has a rotational symmetry:
- a) H b) I c)  $\mathbf{Z}$  d) X

10) Identify the smallest angle of rotation that maps the image to itself.



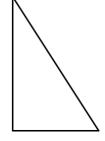
- a)  $90^{\circ}$  b) $180^{\circ}$  c) $45^{\circ}$  d)  $60^{\circ}$
- 11) Identify the smallest angle of rotation that maps the image to itself.



- **a) 180°** b) 360° c) 90°
- d) No rotational symmetry
- 12) Identify the smallest angle of rotation that maps the image to itself.



- a) **72**°
- b) 180° c) 144° d) 45°
- 13) What is(are) the angle(s) of rotation needed to rotate a right triangle onto itself?
- b) 120°
- c) 180°
- d) it does not have rotational symmetry
- 14) What is the order of rotational symmetry for this design?



- - **a)** 1 **b)** 2 **c)** 5
- d) 7
- 15) Which of the following figures have 2D rotational symmetry with their order of symmetry correctly labelled?





Order 2(III)





(a) I and II (b) II and III (c) III and IV (d) I and IV