

## ST. LAWRENCE HIGH SCHOOL



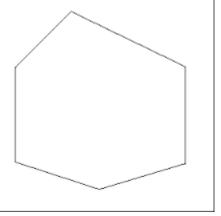
## A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Algebra and Geometry
Duration: 40 min
Worksheet Solution 04
Polygon

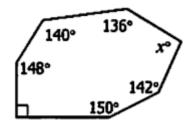
Class: 7
Worksheet Solution 04
Full Marks: 15

## **Choose the Correct options:**

- 1. What is the sum of the interior angles of a triangle?
  - a. 60°
  - b. 90°
  - c. 120°
  - d. 180°
- 2. What is the measure of ONE interior angle in a regular pentagon (5-sides)?
  - a. 90°
  - b. <u>108°</u>
  - c. 120°
  - d. 180°
- 3. What is the sum of the interior angles of a nonagon (9 sides)?
- a. 1440°
- b. 900°
- c. 1080°
- **d.** 1260°
- 4. Find the angle sum of the interior angles of the polygon.



- a. 180°
- b. 540°
- **c.** 720°
- d. 1<del>080</del>°
- 5. Find the value of X



- a. <u>94</u>
- b.  $\overline{25}$
- c. 36
- d. 180
- 6. What is the name of a 7 sided polygon?
  - a. Hexagon

## b. Heptagon

- c. Octagon
- d. nonagon
- 7. How many sides does an octagon have?
  - **a.** <u>8</u> b. 7

  - c. 6
- 8. What is the sum of the exterior angles in a decagon?
  - a. 10
  - b. <u>360</u>
  - c. 361
  - d. 440
- 9. Which formula is used to find the sum of the interior angles of a polygon?
  - a. 180
  - b.  $(n-2)180 \div n$
  - c. (n-2)180
  - d. n(n-3)/2
- 10. If the measure of an exterior angle of a regular polygon is 24°, how many sides does the polygon have?
  - a. 12
  - b. 13
  - c. 14
  - d. <u>15</u>

- 11. What is a polygon?
  - a. A closed figure made up of straight line segments
  - b. An open figure made up of straight line segments
  - c. A closed figure made up of curved edges
  - d. An closed figure made up of crossed line segments
- 12. A polygon's interior angles add up to 2700. How many sides does the polygon have?
  - a. <u>17</u>
  - b. 15
  - c. 19
  - d. 11
- 13. Find the number of sides of a regular polygon with one interior angle measuring 165°
  - a. <u>24</u>
  - b. 22
  - c. 26
  - d. 20
- 14. Josh drew a heptagon as a window on his picture. How many sides does his window have?
  - a. 6
  - b. <u>7</u>
  - c. 8
  - d. 9
- 15. Is the figure a polygon? Is it convex or concave?



- a. Not a polygon, convex
- b. Polygon, convex
- c. Not a polygon
- d. Polygon, concave