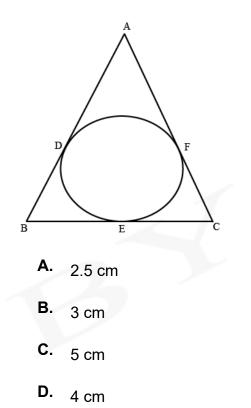


Subject: Mathematics

Topic : Circles Exam Prep 1

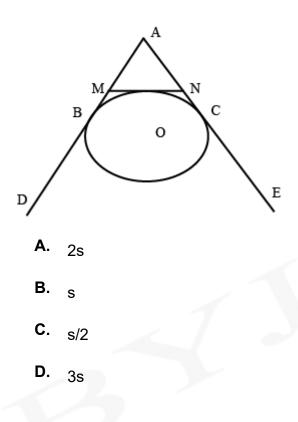
Class: X

1. A Circle is inscribed in triangle ABC having sides 8 cm, 10 cm, and 12 cm as shown in the given figure. Find AD?

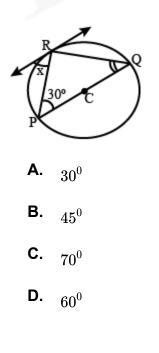




2. ABD and ACE are the two tangents to the circle having centre O, then AB + AC equals _____ of triangle AMN.



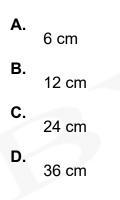
3. In the given figure, if PQ is the diameter, then x is equal to ?



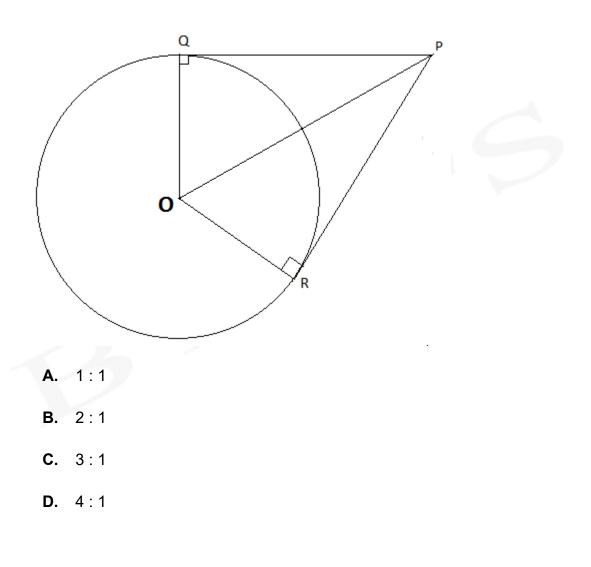
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Practice Challenge - Objective

- 4. From a point outside a given circle, the maximum number of tangents drawn from that point to the circle is/are
 - **A**. 4
 - **B**. 1
 - C. Infinite
 - **D**. 2
- 5. If radii of two concentric circles are 13 cm and 5 cm, then the length of each chord of one circle which touches the other circle is



6. From an external point P, two tangents are drawn that touch the circle at points Q and R. The centre of the circle is O. Points O and P are joined. The ratio of $\angle OPR$ and $\angle OPQ$ is _____.







7. Which of the following statements are true?

1) No tangents can be drawn to a circle from an interior point.

2) Only two tangents, at most, can be drawn to a circle from an exterior point.

A. Only 1

B. Only 2

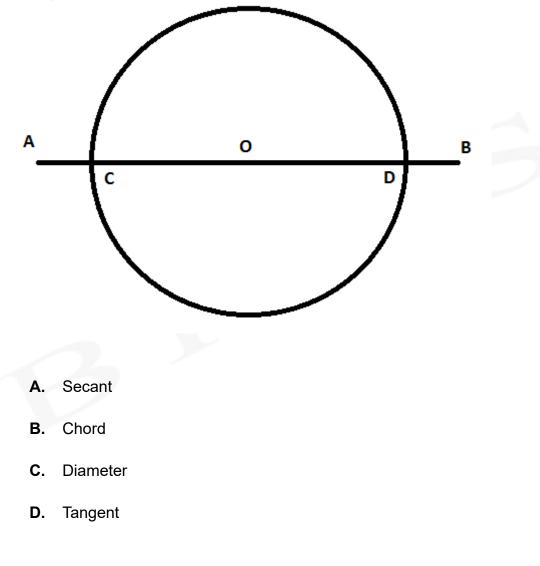
C. Both 1 and 2

D. Neither 1 nor 2

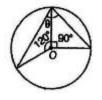




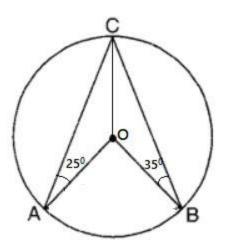
8. A line segment AB intersects a circle at two distinct points C and D as it passes through its centre, as shown in the figure. The line, whose segment is AB, is a:



9. If O is the center of the circle, then the value of θ in the adjoining figure is



- **A**. 45°
- **B**. 60°
- **C**. _{90°}
- **D.** 75°
- ^{10.} In the adjoining figure 'O' is the center of circle, $\angle CAO = 25^{\circ}$ and $\angle CBO = 35^{\circ}$. What is the value of $\angle AOB$?



- **A.** 55°
- **B.** 110°
- **C.** 120°
- **D.** Data insufficient

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