

Unit 12 – Angle in a Segment of a Circle

Multiple Choice Questions

1. A circle passes through the vertices of a right angled $\triangle ABC$ with $m\overline{AC} = 3\text{cm}$ and $m\overline{BC} = 4\text{cm}$, $m\angle C = 90^\circ$, Radius of the circle is:
 - (a) 1.5 cm (b) 2.0 cm
 - (c) 2.5 cm (d) 3.5 cm
2. In the adjacent circular figure, central and inscribed angles stand on the same arc AB:
 - (a) $m\angle 1 = m\angle 2$
 - (b) $m\angle 1 = 2m\angle 2$
 - (c) $m\angle 2 = 3m\angle 1$
 - (d) $m\angle 2 = 2m\angle 1$
3. In the adjacent figure if $m\angle 3 = 75^\circ$, then find $m\angle 1$ and $m\angle 2$
 - (a) $37\frac{1^\circ}{2}, 37\frac{1^\circ}{2}$
 - (b) $37\frac{1^\circ}{2}, 75^\circ$
 - (c) $75^\circ, 37\frac{1^\circ}{2}$
 - (d) $75^\circ, 75^\circ$
4. Given that O is the center of the circle, the angle marked x will be:
 - (a) $12\frac{1^\circ}{2}$ (b) 25°
 - (c) 50° (d) 75°
5. Given that O is the center of the circle the angle marked y will be:
 - (a) $12\frac{1^\circ}{2}$ (b) 25°
 - (c) 50° (d) 75°
6. In the figure, O is the center of the circle and \overleftrightarrow{ABN} is a straight line. The obtuse angle $\text{AOC} = x$ is:
 - (a) 32° (b) 64°
 - (c) 96° (d) 128°
7. In the figure, O is the center of the circle, then the angle x is:
 - (a) 55°
 - (b) 110°
 - (c) 220°
 - (d) 125°
8. In the figure, O is the center of the circle then angle x is:
 - (a) 15°
 - (b) 30°
 - (c) 45°
 - (d) 60°
9. In the figure, O is the center of the circle then the angle x is:
 - (a) 15°
 - (b) 30°
 - (c) 45°
 - (d) 60°
10. In the figure, O is the center of the circle then the angle x is:
 - (a) 50°
 - (b) 75°
 - (c) 100°
 - (d) 125°

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1.	c	2.	d	3.	a	4.	c	5.	b
6.	d	7.	d	8.	b	9.	d	10.	c