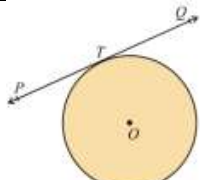
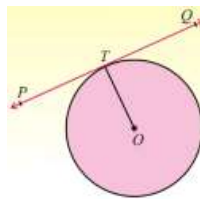
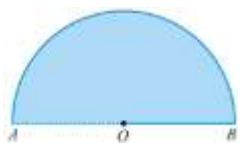
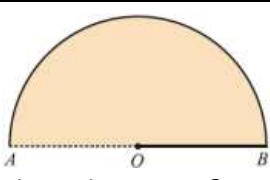
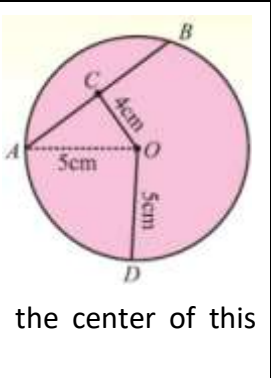
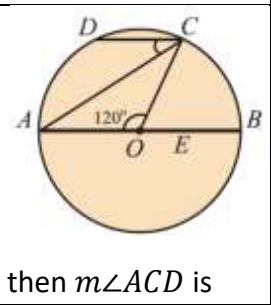


# Unit 10

# Tangent To A Circle

1	In adjacent figure of a circle, the line $\overleftrightarrow{PTQ}$ is named as 	An arc	A chord	✓ A tangent	A secant
2	In a circle with center $O$ , if $\overline{OT}$ is radial segment and $\overleftrightarrow{PTQ}$ is the tangent line, then 	✓ $\overline{OT} \perp \overleftrightarrow{PQ}$	$\overleftrightarrow{PQ}$ not $\perp \overline{OT}$	$\overline{OT} \parallel \overleftrightarrow{PQ}$	$\overline{OT}$ is right bisector of $\overleftrightarrow{PQ}$
3	In the adjacent figure, find the semicircular area.  If $m\overline{OA} = 20 \text{ cm}$ , $\pi = 3.1416$	$62.83 \text{ cm}^2$	$314.16 \text{ cm}^2$	$436.20 \text{ cm}^2$	✓ $628.32 \text{ cm}^2$
4	In the adjacent figure, find half the perimeter of circle with center $O$ .  If $m\overline{OA} = 20 \text{ cm}$ , $\pi = 3.1416$	$31.42 \text{ cm}$	✓ $62.832 \text{ cm}$	$125.65 \text{ cm}$	$188.50 \text{ cm}$
5	A line which has two points in common with a circle is called	<i>Sine</i> of a circle	<i>Cosine</i> of a circle	<i>Tangent</i> of a circle	✓ <i>Secant</i> of a circle
6	A line which has only one point in common with a circle is called	<i>Sine</i> of a circle	<i>Cosine</i> of a circle	✓ <i>Tangent</i> of a circle	<i>Secant</i> of a circle
7	Two tangents drawn to a circle from a point outside it are of ... .. in length	Half	✓ Equal	Double	Triple
8	A circle has only one	Secant	Diameter	Chord	✓ Center
9	A tangent line intersects the circle at	Three points	Two points	✓ Single point	No point at all
10	Tangent drawn at the ends of the diameter of a circle are ... .. to each other	✓ Parallel	Non parallel	Collinear	Perpendicular
11	The distance between the centers of two congruent touching circles externally is	Of zero length	The radius of each circle	✓ The diameter of each circle	Twice the diameter of each circle

12	<p>In adjacent circular figure with center <math>O</math> and radius <math>5\text{ cm}</math>, the length of chord intercepted at <math>4\text{ cm}</math> away from the center of this circle is</p>		4 cm	$\sqrt{6}\text{ cm}$	7 cm	9 cm
13	<p>In adjoining figure, there is a circle with center <math>O</math>. If <math>\overline{DC} \parallel</math> diameter <math>\overline{AB}</math> and <math>m\angle AOC = 120^\circ</math>, then <math>m\angle ACD</math> is</p>		$\sqrt{30}^\circ$	$40^\circ$	$50^\circ$	$60^\circ$

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