

Exercise 10.1

Q.1 Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

Given: A circle with centre O, has $\overline{AB}$ as diameter. $\overleftrightarrow{PAQ}$ is tangent at point A.

$\overleftrightarrow{RBS}$ is tangent at point B

To Prove: $\overleftrightarrow{PAQ} \parallel \overleftrightarrow{RBS}$

Proof:



Statements	Reasons
$\overleftrightarrow{PAQ} \perp \overline{OA}$	Tangent is $\perp$ at the outer end of radial segment.
$\Rightarrow \overleftrightarrow{PAQ} \perp \overline{AB}$	
$\therefore m\angle\alpha = 90^\circ$ (i)	
$\overleftrightarrow{RBS} \perp \overline{OB}$	
$\Rightarrow \overleftrightarrow{RBS} \perp \overline{AB}$	
$\therefore m\angle\beta = 90^\circ$ (ii)	
Thus, $m\angle\alpha = m\angle\beta$	
Therefore $\overleftrightarrow{PAQ} \parallel \overleftrightarrow{RBS}$	If alternate Angles are equal in measurement, then lines are parallel.

Q.2 The diameters of two concentric circles are 10cm and 5cm respectively. Look for the

Solution: Let AB be any chord of the outer circle that touches the inner circle.

Diameter of outer circle = 10 cm

Radius of outer circle = $\frac{10}{2} = 5$ cm

Diameter of inner circle = 5 cm

Radius of inner circle = $\frac{5}{2} = 2.5$ cm

$\triangle OCB$ is right angled triangle with right angle at C. ($\because OC \perp AB$)

By Pythagoras theorem

$$(\frac{10}{2})^2 = (\frac{5}{2})^2 + (OC)^2$$

$$25 = \frac{25}{4} + (OC)^2$$

$$25 - \frac{25}{4} = (OC)^2$$

$$\frac{75}{4} = (OC)^2$$

$$\sqrt{\frac{75}{4}} = OC$$

$$OC = \frac{\sqrt{75}}{2}$$

$$\text{Length of Chord} = 2 \times OC$$

$$= 2 \times \frac{\sqrt{75}}{2}$$

$$= \sqrt{75} = 8.66 \text{ cm} \quad \Rightarrow \quad \boxed{\text{Length of Chord} = 8.66 \text{ cm}}$$



Matric Papers Maths

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