

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

length of any chord of the outer circle which touches the inner circle.

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

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

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

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

$$(OC)^2 = \frac{100 - 25}{4}$$

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

Taking square root of both sides

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

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

Length of Chord = $2 \times OC$

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

$$AB = \sqrt{75} \Rightarrow AB = 8.66 \text{ cm}$$



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