

## Exercise 10.1

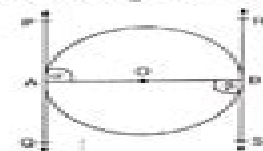
**Q.1** Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

**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

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

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

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

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

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

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

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

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

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



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