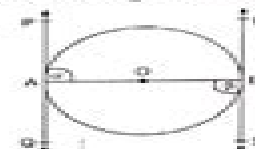## Exercise 10.1

**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. |
| $\Rightarrow \overleftrightarrow{PAQ} \perp \overline{AB}$ | |
| $\therefore \quad m\angle\alpha = 90°$ ......... (i) | |
| $\overleftrightarrow{RBS} \perp \overline{OB}$ | |
| $\Rightarrow \overleftrightarrow{RBS} \perp \overline{AB}$ | |
| $\therefore \quad m\angle\beta = 90°$ ......... (ii) | |
| Thus, $m\angle\alpha = m\angle\beta$ | |
| Therefore | If alternate Angles are equal in measurement, then lines are parallel. |
| $\overleftrightarrow{PQ} \parallel \overleftrightarrow{RS}$ | |

**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 for any chord of the outer circle that touches the inner circle.

Diameter of outer circle = 10 cm

Radius of outer circle = $m\overline{OB} = \dfrac{10cm}{2} = 5cm$

Diameter of inner circle = 5 cm

Radius of inner circle = $m\overline{OC} = \dfrac{5cm}{2} = 2.5cm$

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

By Pythagoras theorem,

$(m\overline{OB})^2 = (m\overline{BC})^2 + (m\overline{OC})^2$

$(5 cm)^2 = (x)^2 + (2.5cm)^2$

$x^2 = (5cm)^2 - (2.5cm)^2$

$x^2 = 25cm^2 - 6.25 \ cm^2$

$x^2 = 18.75cm^2$

Taking square root of both sides,

$\sqrt{x^2} = \sqrt{18.75cm^2}$

$x = \sqrt{18.75}cm$

Length of Chord = $m\overline{AB} = 2x$

$m\overline{AB} = 2(\sqrt{18.75}cm)$

$m\overline{AB} = 8.66cm \quad \Rightarrow \quad \boxed{m\overline{AB} = 8.7cm}$
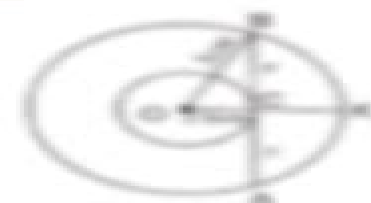
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