

## Exercise 10.1

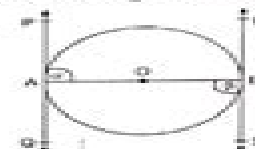
**Q.1** Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

**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

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

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

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

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

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

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

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

$$\text{Length of Chord} = \frac{10}{2} = 5$$

$$\frac{10}{2} = 5 \cdot \frac{\sqrt{75}}{2}$$

$$\frac{10}{2} = 5 \cdot \frac{\sqrt{75}}{2}$$

$$\frac{10}{2} = 5 \cdot \frac{\sqrt{75}}{2}$$



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**Xiaolong Qi**



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