



Exercise 10.1

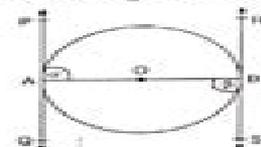
Q.1 Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

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 = 10cm

Radius of outer circle = $r_1 = \frac{10\text{cm}}{2} = 5\text{cm}$

Diameter of inner circle = 5cm

Radius of inner circle = $r_2 = \frac{5\text{cm}}{2} = 2.5\text{cm}$

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

By Pythagoras theorem

$$(r_1)^2 = (r_2)^2 + (OC)^2$$

$$= (5\text{cm})^2 = (2.5\text{cm})^2 + (OC)^2$$

$$= (5\text{cm})^2 - (2.5\text{cm})^2 = (OC)^2$$

$$= (25\text{cm}^2) - (6.25\text{cm}^2)$$

$$= 18.75\text{cm}^2$$

$$\text{Taking square root of both sides}$$

$$\sqrt{18.75\text{cm}^2}$$

$$= 4.33\text{cm}$$

$$\text{Length of Chord} = mAB = 2x$$

$$mAB = 2 \times 4.33\text{cm}$$

$$mAB = 8.66\text{cm} \quad \Rightarrow \quad \boxed{mAB = 8.66\text{cm}}$$



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Zhe Xu



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Table of Contents Matric Maths Paper March 24memorandum

1. Understanding the eBook Matric Maths Paper March 24memorandum
 - The Rise of Digital Reading Matric Maths Paper March 24memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Matric Maths Paper March 24memorandum
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Matric Maths Paper March 24memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matric Maths Paper March 24memorandum
 - Personalized Recommendations
 - Matric Maths Paper March 24memorandum User Reviews and Ratings

- Matric Maths Paper March 24memorandum and Bestseller Lists
- 5. Accessing Matric Maths Paper March 24memorandum Free and Paid eBooks
 - Matric Maths Paper March 24memorandum Public Domain eBooks
 - Matric Maths Paper March 24memorandum eBook Subscription Services
 - Matric Maths Paper March 24memorandum Budget-Friendly Options
- 6. Navigating Matric Maths Paper March 24memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Matric Maths Paper March 24memorandum Compatibility with Devices
 - Matric Maths Paper March 24memorandum Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matric Maths Paper March 24memorandum
 - Highlighting and Note-Taking Matric Maths Paper March 24memorandum
 - Interactive Elements Matric Maths Paper March 24memorandum
- 8. Staying Engaged with Matric Maths Paper March 24memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matric Maths Paper March 24memorandum
- 9. Balancing eBooks and Physical Books Matric Maths Paper March 24memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matric Maths Paper March 24memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matric Maths Paper March 24memorandum
 - Setting Reading Goals Matric Maths Paper March 24memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matric Maths Paper March 24memorandum
 - Fact-Checking eBook Content of Matric Maths Paper March 24memorandum
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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