



Exercise 10.1

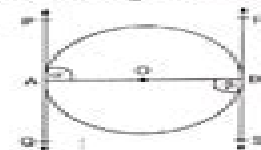
Q.1 Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

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 = $\frac{10\text{ cm}}{2} = 5\text{ cm}$

Diameter of inner circle = 5 cm

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

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

By Pythagoras theorem

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

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

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

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

Taking square root of both sides

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

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

Length of Chord = $2 \times OC$

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

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



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Table of Contents Matric Maths Paper 201

1. Understanding the eBook Matric Maths Paper 201
 - The Rise of Digital Reading Matric Maths Paper 201
 - Advantages of eBooks Over Traditional Books
2. Identifying Matric Maths Paper 201
 - 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 201
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matric Maths Paper 201
 - Personalized Recommendations
 - Matric Maths Paper 201 User Reviews and Ratings
 - Matric Maths Paper 201 and Bestseller Lists
5. Accessing Matric Maths Paper 201 Free and Paid eBooks

- Matric Maths Paper 201 Public Domain eBooks
- Matric Maths Paper 201 eBook Subscription Services
- Matric Maths Paper 201 Budget-Friendly Options
- 6. Navigating Matric Maths Paper 201 eBook Formats
 - ePub, PDF, MOBI, and More
 - Matric Maths Paper 201 Compatibility with Devices
 - Matric Maths Paper 201 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matric Maths Paper 201
 - Highlighting and Note-Taking Matric Maths Paper 201
 - Interactive Elements Matric Maths Paper 201
- 8. Staying Engaged with Matric Maths Paper 201
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matric Maths Paper 201
- 9. Balancing eBooks and Physical Books Matric Maths Paper 201
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matric Maths Paper 201
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matric Maths Paper 201
 - Setting Reading Goals Matric Maths Paper 201
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matric Maths Paper 201
 - Fact-Checking eBook Content of Matric Maths Paper 201
 - 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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