

Exercise 10.1

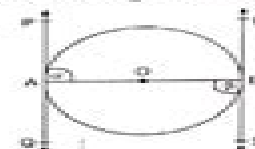
Q.1 Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

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

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

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

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

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

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

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

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

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

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

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

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



Matric Mathematics Paper March 24

Emilie Sanchez



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Table of Contents Matric Mathematics Paper March 24

1. Understanding the eBook Matric Mathematics Paper March 24
 - The Rise of Digital Reading Matric Mathematics Paper March 24
 - Advantages of eBooks Over Traditional Books
2. Identifying Matric Mathematics Paper March 24
 - 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 Mathematics Paper March 24
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matric Mathematics Paper March 24
 - Personalized Recommendations
 - Matric Mathematics Paper March 24 User Reviews and Ratings
 - Matric Mathematics Paper March 24 and Bestseller Lists
5. Accessing Matric Mathematics Paper March 24 Free and Paid eBooks
 - Matric Mathematics Paper March 24 Public Domain eBooks
 - Matric Mathematics Paper March 24 eBook Subscription Services
 - Matric Mathematics Paper March 24 Budget-Friendly Options

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