

Exercise 10.1

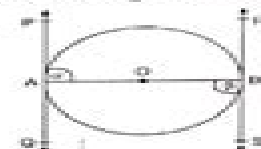
Q.1 Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

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

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

$$25 = 6.25 + (OC)^2$$

$$\therefore (OC)^2 = 25 - 6.25$$

$$(OC)^2 = 18.75$$

Taking square root of both sides

$$OC = \sqrt{18.75}$$

$$OC = 4.33$$

Length of Chord = $2 \times OC = 2 \times 4.33$

$$AB = 2 \times 4.33$$

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



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Table of Contents Matric Maths Past Papers 21

1. Understanding the eBook Matric Maths Past Papers 21
 - The Rise of Digital Reading Matric Maths Past Papers 21
 - Advantages of eBooks Over Traditional Books
2. Identifying Matric Maths Past Papers 21
 - 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 Past Papers 21
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matric Maths Past Papers 21
 - Personalized Recommendations
 - Matric Maths Past Papers 21 User Reviews and Ratings
 - Matric Maths Past Papers 21 and Bestseller Lists

5. Accessing Matric Maths Past Papers 21 Free and Paid eBooks
 - Matric Maths Past Papers 21 Public Domain eBooks
 - Matric Maths Past Papers 21 eBook Subscription Services
 - Matric Maths Past Papers 21 Budget-Friendly Options
6. Navigating Matric Maths Past Papers 21 eBook Formats
 - ePub, PDF, MOBI, and More
 - Matric Maths Past Papers 21 Compatibility with Devices
 - Matric Maths Past Papers 21 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matric Maths Past Papers 21
 - Highlighting and Note-Taking Matric Maths Past Papers 21
 - Interactive Elements Matric Maths Past Papers 21
8. Staying Engaged with Matric Maths Past Papers 21
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matric Maths Past Papers 21
9. Balancing eBooks and Physical Books Matric Maths Past Papers 21
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matric Maths Past Papers 21
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Matric Maths Past Papers 21
 - Setting Reading Goals Matric Maths Past Papers 21
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Matric Maths Past Papers 21
 - Fact-Checking eBook Content of Matric Maths Past Papers 21
 - 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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