



Exercise 10.1

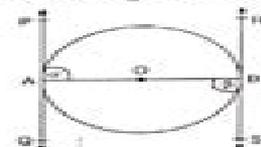
Q.1 Prove that the tangents drawn at the ends of a diameter in a given circle must be parallel.

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

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

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

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

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

$$= 18.75 = (OC)^2$$

$$= 4.33 = OC$$

$$= 4.33 = OC$$

$$\text{Length of Chord} = 2 \times OC = 2 \times 4.33$$

$$= 2 \times 4.33 = 8.66\text{cm}$$

$$= 8.66\text{cm} \Rightarrow \text{Length of Chord} = 8.66\text{cm}$$



Matric Maths Paper

Tao Wei



Matric Maths Paper :

The Schoolmasters' yearbook & (educational) directory ,1906 *The Schoolmasters' Yearbook & Educational Directory* ,1932 Commonwealth Universities Yearbook ,1964 A directory to the universities of the Commonwealth and the handbook of their association **Pratiyogita Darpan** ,2007-05 Pratiyogita Darpan monthly magazine is India s largest read General Knowledge and Current Affairs Magazine Pratiyogita Darpan English monthly magazine is known for quality content on General Knowledge and Current Affairs Topics ranging from national and international news issues personality development interviews of examination toppers articles write up on topics like career economy history public administration geography polity social environment scientific legal etc solved papers of various examinations Essay and debate contest Quiz and knowledge testing features are covered every month in this magazine The Schoolmasters Yearbook and Directory ,1908 Competition Science Vision ,2006-10 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue *The Schoolmasters Yearbook and Directory ...* ,1906 **The Educational Times, and Journal of the College of Preceptors** ,1892 **Indian Armed Forces** Bharat Verma, GM Hiranandani and BK Pandey, India s Armed Forces comprise the world s second largest Army the fourth largest Air Force the eighth largest Navy and the largest Coast Guard in the northern Indian Ocean In their respective domains these four Services are entrusted with the security of the air space above India of more than 14 000 kilometres of land borders 7 500 kilometres of coastline 156 000 kilometres of shore line and an Exclusive Economic Zone of two million square kilometres In its sixty year post colonial history India s Army Navy and Air Force have fought five wars one against China and four against Pakistan Every year these Armed Services provide succour to thousands of people when rivers overflow their banks when cyclones devastate coastal districts and when occasional tsunamis and earthquakes maroon hundreds of thousands of people Overseas India has been a leading contributor to the United Nations Peace Keeping Missions The Indian Army operates in extremes of terrain and climate In the glacial terrain on the northern Himalayan borders in Siachen in the high altitude terrain in Ladakh Sikkim and Arunachal Pradesh and in the mountainous terrain in Jammu Kashmir In the riverine plains of the Punjab and Bengal In the desert of Rajasthan and In the salty marshes of Kachch Gujarat and Bengal It is widely respected as an experienced Army that has been coping with insurgencies for sixty years and for the last thirty years in combating the Islamic Terrorism that has now spread across the world The Indian peninsula straddles the Sea Lanes of Communication SLOCs across the northern Indian Ocean With the

strategic reach of its air arm the Navy jointly with the Coast Guard safeguards India's as well as the region's maritime interests The Air Force's well equipped air squadrons together with its capabilities of in flight refuelling and sizeable airlift bestow deterrent strategic reach All four services exercise jointly and singly with friendly regional and international counterparts to erect bridges of friendship and strengthen inter operability as each of them transforms to cope with the 21st century Regional peace and stability are crucial for India's societal well being and economic development These are best ensured by competent Armed Forces This book provides an excellent overview by veterans who served with honour in India's Armed Forces

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Table of Contents Matric Maths Paper

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

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