- **FRESYJU'S**
 - ind the value of the following without using trigonometric tables:

$$\frac{\cos 50^{\circ}}{2 \sin 40^{\circ}} + \frac{4(\cos ec^{2} 59^{\circ} - \tan^{2} 31^{\circ})}{3 \tan^{2} 45^{\circ}} - \frac{2}{3} \tan 12^{\circ} . \tan 78^{\circ} . \sin 90^{\circ}$$

- 18. Prove that $cos\theta(sin\theta 2sin^3\theta) = sin\theta(2cos^3\theta cos\theta)$
- 19. If $sec\theta + tan\theta = p$, show that $\frac{p^2+1}{2p} = sec\theta$
- 20. Find the mode of the following frequency distribution:

Class	14 - 16	16-18	18-20	20-22	22-24
Frequency	2	3	6	5	4

Section - D

Questions from 21 to 31 carry four marks each.

- 21. 6 retired teachers, 8 retired doctors and 10 retired defense officers are willing to render their services to a village. Each of teacher, doctor and defense officers serves equal number of different persons in that village.
 - a) Find least number of persons served by each.
 - b) Suggest the value depicted in the question.
- 22. Represent the following pair of linear equations graphically

$$x + y = 7$$
$$5x + 2y = 20$$

From the graph, find the points where the lines represented by these equations intersect the x-axis.

- 23. The present age of a father is three years more than three times the age of the son. Three years hence, father's age will be 10 years more than twice the age of the son. Determine their present ages.
- 24. Find the values of p and q so that 1 and -2 are the zeroes of the polynomial $p(x) = x^3 + 10 x^2 + px + q$. Also find its third zero.
- 25. In the figure given below, $\triangle PQR$ is right angled at Q and the points S and T trisect the side QR. Then prove that $8PT^2 = 3PR^2 + 5PS^2$.



- 26. Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.
- 27. If $\tan\theta + \cot\theta = 4$ find the values of $\tan^4\theta + \cot^4\theta$

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- 1. Understanding the eBook Maths Paper For Grade 10 2014 Common
 - The Rise of Digital Reading Maths Paper For Grade 10 2014 Common
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Paper For Grade 10 2014 Common
 - 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 Maths Paper For Grade 10 2014 Common
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Paper For Grade 10 2014 Common
 - Personalized Recommendations
 - Maths Paper For Grade 10 2014 Common User Reviews and Ratings
 - Maths Paper For Grade 10 2014 Common and Bestseller Lists

- 5. Accessing Maths Paper For Grade 10 2014 Common Free and Paid eBooks
 - Maths Paper For Grade 10 2014 Common Public Domain eBooks
 - Maths Paper For Grade 10 2014 Common eBook Subscription Services
 - Maths Paper For Grade 10 2014 Common Budget-Friendly Options
- 6. Navigating Maths Paper For Grade 10 2014 Common eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Maths Paper For Grade 10 2014 Common Compatibility with Devices
 - Maths Paper For Grade 10 2014 Common Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper For Grade 10 2014 Common
 - Highlighting and Note-Taking Maths Paper For Grade 10 2014 Common
 - Interactive Elements Maths Paper For Grade 10 2014 Common
- 8. Staying Engaged with Maths Paper For Grade 10 2014 Common
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper For Grade 10 2014 Common
- 9. Balancing eBooks and Physical Books Maths Paper For Grade 10 2014 Common
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper For Grade 10 2014 Common
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper For Grade 10 2014 Common
 - Setting Reading Goals Maths Paper For Grade 10 2014 Common
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper For Grade 10 2014 Common
 - Fact-Checking eBook Content of Maths Paper For Grade 10 2014 Common
 - 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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