

Find the value of the following without using trigonometric tables:

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

18. Prove that $\cos \theta (\sin \theta - 2 \sin^3 \theta) = \sin \theta (2 \cos^3 \theta - \cos \theta)$

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.

- Find least number of persons served by each.
- Suggest the value depicted in the question.

22. Represent the following pair of linear equations graphically

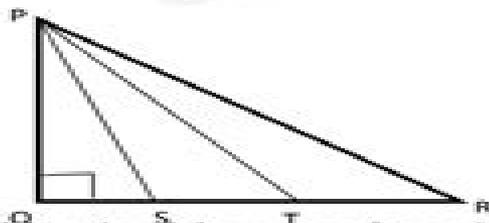
$$\begin{aligned} x + y &= 7 \\ 5x + 2y &= 20 \end{aligned}$$

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 $p(x) = x^2 + 10x^2 + px + q$. 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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Lingjun Ying



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Table of Contents 2013 Mathematics Paper2 Grade10

1. Understanding the eBook 2013 Mathematics Paper2 Grade10
 - The Rise of Digital Reading 2013 Mathematics Paper2 Grade10
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 Mathematics Paper2 Grade10
 - 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 2013 Mathematics Paper2 Grade10
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 Mathematics Paper2 Grade10

- Personalized Recommendations
 - 2013 Mathematics Paper2 Grade10 User Reviews and Ratings
 - 2013 Mathematics Paper2 Grade10 and Bestseller Lists
5. Accessing 2013 Mathematics Paper2 Grade10 Free and Paid eBooks
- 2013 Mathematics Paper2 Grade10 Public Domain eBooks
 - 2013 Mathematics Paper2 Grade10 eBook Subscription Services
 - 2013 Mathematics Paper2 Grade10 Budget-Friendly Options
6. Navigating 2013 Mathematics Paper2 Grade10 eBook Formats
- ePub, PDF, MOBI, and More
 - 2013 Mathematics Paper2 Grade10 Compatibility with Devices
 - 2013 Mathematics Paper2 Grade10 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 2013 Mathematics Paper2 Grade10
 - Highlighting and Note-Taking 2013 Mathematics Paper2 Grade10
 - Interactive Elements 2013 Mathematics Paper2 Grade10
8. Staying Engaged with 2013 Mathematics Paper2 Grade10
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 Mathematics Paper2 Grade10
9. Balancing eBooks and Physical Books 2013 Mathematics Paper2 Grade10
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 Mathematics Paper2 Grade10
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2013 Mathematics Paper2 Grade10
- Setting Reading Goals 2013 Mathematics Paper2 Grade10
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2013 Mathematics Paper2 Grade10

- Fact-Checking eBook Content of 2013 Mathematics Paper2 Grade10
 - 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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