

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

$$x + y = 7$$

$$5x + 2y = 20$$

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  $p(x) = x^3 + 10x^2 + px + q$ . 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  $\tan^4 \theta + \cot^4 \theta$

# Mathematics Grade 10 Question Papers

**Y Pai**



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## **Table of Contents Mathematics Grade 10 Question Papers**

1. Understanding the eBook Mathematics Grade 10 Question Papers
  - The Rise of Digital Reading Mathematics Grade 10 Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Grade 10 Question Papers
  - 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 Mathematics Grade 10 Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Grade 10 Question Papers
  - Personalized Recommendations
  - Mathematics Grade 10 Question Papers User Reviews and Ratings

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