

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 $\tan^4 \theta + \cot^4 \theta$

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 - The Rise of Digital Reading Sample Papers For Class 10 Cbse Fa1 Maths
 - Advantages of eBooks Over Traditional Books
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 - 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 Sample Papers For Class 10 Cbse Fa1 Maths
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Papers For Class 10 Cbse Fa1 Maths
 - Personalized Recommendations
 - Sample Papers For Class 10 Cbse Fa1 Maths User Reviews and Ratings
 - Sample Papers For Class 10 Cbse Fa1 Maths and Bestseller Lists
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 - Sample Papers For Class 10 Cbse Fa1 Maths Public Domain eBooks
 - Sample Papers For Class 10 Cbse Fa1 Maths eBook Subscription Services
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 - Adjustable Fonts and Text Sizes of Sample Papers For Class 10 Cbse Fa1 Maths
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 - Interactive Elements Sample Papers For Class 10 Cbse Fa1 Maths
 8. Staying Engaged with Sample Papers For Class 10 Cbse Fa1 Maths
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Papers For Class 10 Cbse Fa1 Maths
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 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Papers For Class 10 Cbse Fa1 Maths
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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