

CBSE Class 12 Maths Sample Paper Set 1

Time: 3 hours

Total Marks: 100

1. All questions are compulsory.
2. The question paper consist of 29 questions divided into four sections A, B, C and D. Section A comprises of 4 questions of one mark each, section B comprises of 8 questions of two marks each, section C comprises of 11 questions of four marks each and section D comprises of 6 questions of six marks each.
3. Use of calculators is not permitted.

SECTION – A

1. Find the inverse of $g: R \rightarrow R, g(x) = 4e^{2x} + 3$ and the domain of the $g^{-1}(x)$
2. What should be the value of n for which the points $(2, -3)$, $(3, 1)$ and $(5, n)$ are collinear?
3. If X is a set of the factors of 30, $a, b \in X$ and $f(a, b, c) = (a + b) * (b' + c)$ where
 - (i) $a + b$ is defined such that $a + b = \text{LCM}(a, b)$
 - (ii) $a * b$ is defined such that $a * b = \text{GCD}(a, b)$
 - (iii) $a' = 30/a$

What is the value of $f(2, 5, 15)$?

4. A parallelogram is constructed on $3\vec{a} + \vec{b}$ and $\vec{a} - 4\vec{b}$ where $|\vec{a}| = 6$ and $|\vec{b}| = 8$ and $\vec{a}$ and $\vec{b}$ are anti-parallel. What is the length of the longer diagonal?

(OR)

If $\vec{a} = \hat{i} + \hat{j} + \hat{k}, \vec{b} = \hat{i} - \hat{j} + 2\hat{k}$ and $\vec{c} = x\hat{i} + (x - 2)\hat{j} - \hat{k}$, and if the vector lies in the plane of vectors $\vec{a}$ and $\vec{b}$, then what is the value of x ?

SECTION – B

5. Express the matrix $A = \begin{bmatrix} 3 & 7 \\ 1 & 4 \end{bmatrix}$ as sum of two matrices such that one is symmetric and the other is skew symmetric.

(OR)

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Table of Contents Maths Sample Paper Cbse

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

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