

CBSE Boards 2023

Answer & Solutions

Mathematics

Section-A

This section comprises of MCQ (Multiple choice question), each of 1 mark.

1. If $\frac{d}{dx} f(x) = 2x + \frac{3}{x}$ and $f(1) = 1$, then $f(x)$ is

(A) $x^2 + 3 \log|x| + 1$ (B) $x^2 + 3 \log|x|$

(C) $2 - \frac{3}{x^2}$ (D) $x^2 + 3 \log|x| - 4$

Sol. Answer (B)

Given equation is $\frac{d}{dx} f(x) = 2x + \frac{3}{x}$

Integrating on both sides

$$\int \frac{d}{dx} f(x) dx = \int \left(2x + \frac{3}{x} \right) dx$$

$$\Rightarrow f(x) = x^2 + 3 \ln|x| + c \dots (i)$$

Given that $f(1) = 1$

$$\therefore f(1) = 1 = 1 + c \Rightarrow c = 0$$

$$\therefore f(x) = x^2 + 3 \ln|x|$$

2. Degree of the differential equation $\sin x + \cos \left(\frac{dy}{dx} \right) = y^2$ is

(A) 2

(B) 1

(C) not defined

(D) 0

Sol. Answer (C)

Given differential equation is $\sin x + \cos \left(\frac{dy}{dx} \right) = y^2$

The order of the differential equation is 1.

The given differential equation cannot be written as a polynomial equation.

\therefore The degree of the differential equation is not defined.

N27 March Maths Question Paper

Michael Seilmaier

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents N27 March Maths Question Paper

1. Understanding the eBook N27 March Maths Question Paper
 - The Rise of Digital Reading N27 March Maths Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying N27 March Maths Question Paper
 - 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 N27 March Maths Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from N27 March Maths Question Paper
 - Personalized Recommendations
 - N27 March Maths Question Paper User Reviews and Ratings
 - N27 March Maths Question Paper and Bestseller Lists

5. Accessing N27 March Maths Question Paper Free and Paid eBooks
 - N27 March Maths Question Paper Public Domain eBooks
 - N27 March Maths Question Paper eBook Subscription Services
 - N27 March Maths Question Paper Budget-Friendly Options
6. Navigating N27 March Maths Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - N27 March Maths Question Paper Compatibility with Devices
 - N27 March Maths Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N27 March Maths Question Paper
 - Highlighting and Note-Taking N27 March Maths Question Paper
 - Interactive Elements N27 March Maths Question Paper
8. Staying Engaged with N27 March Maths Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N27 March Maths Question Paper
9. Balancing eBooks and Physical Books N27 March Maths Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N27 March Maths Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine N27 March Maths Question Paper
 - Setting Reading Goals N27 March Maths Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N27 March Maths Question Paper
 - Fact-Checking eBook Content of N27 March Maths Question Paper
 - 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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