

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.

Maths Question Paper Grade 12march

Thomas Griffiths



Maths Question Paper Grade 12march:

This book delves into Maths Question Paper Grade 12march. Maths Question Paper Grade 12march is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Maths Question Paper Grade 12march, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Maths Question Paper Grade 12march
- Chapter 2: Essential Elements of Maths Question Paper Grade 12march
- Chapter 3: Maths Question Paper Grade 12march in Everyday Life
- Chapter 4: Maths Question Paper Grade 12march in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Maths Question Paper Grade 12march. The first chapter will explore what Maths Question Paper Grade 12march is, why Maths Question Paper Grade 12march is vital, and how to effectively learn about Maths Question Paper Grade 12march.

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