

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.

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