



Education as a Service (EaaS)

Sample Question Paper - SET 1

+91-7869553517 | www.mathlove.in

🔒 MATH LOVE INSTITUTE - CONFIDENTIAL - FOR PRACTICE ONLY 🔒

Class	XII	Subject	Mathematics (041)
Chapter	7 - Integrals	Time Allowed	15 Minutes
Maximum Marks	6	Date	_____

GENERAL INSTRUCTIONS:

1. This question paper contains **3 questions** from Chapter 7 - Integrals.
2. All questions are compulsory.
3. Question 1 carries **1 mark**.
4. Question 2 carries **2 marks**.
5. Question 3 carries **3 marks**.
6. Show all steps of your calculations clearly.
7. Use proper mathematical notation and terminology.

HOW TO SUBMIT:

1. Solve this question paper in your notebook or on loose sheets.
2. Clearly write your **Name, CBSE Roll Number, School Name, Place, and Date** on the first page.
3. Upload your solved paper at our website: www.mathlove.in
4. Check your **detailed report card on the website** after evaluation.
5. For any queries or assistance, WhatsApp us at **+91-7869553517**

SECTION A - 1 MARK QUESTION (1 × 1 = 1 Mark)

Q1. Evaluate: $\int e^x(\tan x + \log \sec x) dx$. Choose the correct answer:

(A) $e^x \tan x + C$

(B) $e^x \log \sec x + C$

(C) $e^x \log \cos x + C$

(D) $e^x \sec x + C$

[1]

© 2025 MATH LOVE INSTITUTE - ALL RIGHTS RESERVED

SECTION B - 2 MARKS QUESTION (1 × 2 = 2 Marks)

Q2. Evaluate: $\int (x^2 + 1)/(x^4 + 1) dx$

[2]

🔒 CONFIDENTIAL - MATH LOVE INSTITUTE 🔒

SECTION C - 3 MARKS QUESTION (1 × 3 = 3 Marks)

Q3. Evaluate: $\int_0^\pi x \sin x/(1 + \cos^2 x) dx$

[3]

© 2025 MATH LOVE INSTITUTE - ALL RIGHTS RESERVED

© 2025 Math Love Institute. All Rights Reserved.

H-1 Street 2, V V Vihar, Shankar Nagar, Raipur (C.G.)

☎ +91-7869553517 | 🌐 www.mathlove.in | ✉ info@mathlove.in

This question paper is the intellectual property of Math Love Institute.