

CLASS 12

MATHEMATICS

REVISION NOTES

Class 12 Mathematics Chapter 7 Integrals – Revision Notes

Quick revision notes for Class 12 Maths Chapter 7 (Integrals). These Class 12 Mathematics Chapter 7 notes are ideal for quick revision just before exams.

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Standard Integrals

$$\int x^n dx = x^{n+1}/(n+1) + C; \int 1/x \, dx = \log|x| + C; \int e^x dx = e^x + C.$$

$$\int \sin x \, dx = -\cos x + C; \int \cos x \, dx = \sin x + C.$$

Techniques

Substitution, partial fractions, integration by parts ($\int u \, dv = uv - \int v \, du$, ILATE order).

Definite Integrals

$$\int_a^b f(x) dx = F(b) - F(a) \text{ (Fundamental Theorem).}$$

$$\text{Key property: } \int_a^b f(x) dx = \int_a^b f(a+b-x) dx.$$

One-Line Summary

Integration reverses differentiation; indefinite integrals carry a constant C , while definite integrals compute exact signed area using the Fundamental Theorem of Calculus and simplifying properties.

Class 12 Mathematics Chapter 7 – Solutions and Important Questions

Need full answers or more practice? See the [Class 12 Mathematics Chapter 7 Solutions](#) and [Class 12 Mathematics Chapter 7 Extra Questions](#).

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Practice more: [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#) | [Chapter 6](#) | [Chapter 7](#)

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