

CLASS 12

MATHEMATICS

REVISION NOTES

Class 12 Mathematics Chapter 8 Applications of Integrals – Revision Notes

Quick revision notes for Class 12 Maths Chapter 8 (Applications of Integrals). These Class 12 Mathematics Chapter 8 notes are ideal for quick revision just before exams.

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Class 12 Mathematics Chapter 8 – Solutions and Important Questions

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Area Formulas

Under curve: $\int_a^b |f(x)| dx$.

Between curves: $\int_a^b [f(x) - g(x)] dx$ (upper–lower).

Circle $x^2 + y^2 = a^2$: area = πa^2 .

Method

Sketch curves, find intersection points as limits.

Integrate w.r.t. y when region is naturally $x = g(y)$.

Split composite regions into simpler sub-integrals when needed.

One-Line Summary

Applications of Integrals uses definite integrals to compute areas under and between curves, requiring careful sketching to identify limits and which curve bounds the region above/below.

Class 12 Mathematics Chapter 8 – Solutions and Important Questions

Need full answers or more practice? See the [Class 12 Mathematics Chapter 8 Solutions](#) and [Class 12 Mathematics Chapter 8 Extra Questions](#).

See also: [Chapter 1](#) | [Chapter 2](#) | [Chapter 3](#) | [Chapter 4](#) | [Chapter 5](#) | [Chapter 6](#) | [Chapter 7](#) | [Chapter 8](#)

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