CLASS 9 MATHEMATICS REVISION NOTES

Class 9 Mathematics Chapter 4 Exploring Algebraic Identities – Revision Notes

Quick revision notes for Class 9 Maths Chapter 4 (Exploring Algebraic Identities). These Class 9 Mathematics Chapter 4 notes are ideal for quick revision just before exams.

Contents

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Standard Identities

$(a+b)^2 = a^2+2ab+b^2$

$(a-b)^2 = a^2-2ab+b^2$

$a^2-b^2 = (a+b)(a-b)$

$(x+a)(x+b) = x^2+(a+b)x+ab$

$(a+b)^3 = a^3+b^3+3ab(a+b)$

$(a-b)^3 = a^3-b^3-3ab(a-b)$

$a^3+b^3 = (a+b)(a^2-ab+b^2)$

$a^3-b^3 = (a-b)(a^2+ab+b^2)$

Uses

Quick expansion (substitute into identity).

Factorisation (recognise pattern, reverse identity).

Mental calculation (e.g. 102×98 via difference of squares).

One-Line Summary

Algebraic identities are universally true equations that speed up expansion, factorisation, and even arithmetic by letting you substitute into known patterns instead of multiplying term by term.

Class 9 Mathematics Chapter 4 – Solutions and Important Questions

Need full answers or more practice? See the Class 9 Mathematics Chapter 4 Solutions and Class 9 Mathematics Chapter 4 Extra Questions.

See also: Chapter 1 | Chapter 2 | Chapter 3 | Chapter 4

Practice more: Chapter 1 | Chapter 2 | Chapter 3 | Chapter 4

Quick revision: Chapter 1 | Chapter 2 | Chapter 3