

CLASS 10

MATHS

REVISION NOTES

Revision Notes: Class 10 Maths Chapter 2 Polynomials

A fast, one-glance recap of Class 10 Maths Chapter 2 (Polynomials) -- for the full worked explanations, see the Solutions. These Class 10 Mathematics Chapter 2 notes are ideal for quick revision just before exams.

Contents

Why This Chapter Matters

Revision Notes: Polynomials

How to Use These Notes

Class 10 Mathematics Chapter 2 – Solutions and Important Questions

A fast, one-glance recap of Class 10 Maths Chapter 2 (Polynomials) — for the full worked explanations, see the [Solutions](#). These Class 10 Mathematics Chapter 2 notes are ideal for quick revision just before exams.

Why This Chapter Matters

Polynomials is one of the standard chapters in the CBSE/NCERT Class 10 Maths syllabus and questions from it appear regularly in board exams, in formats ranging from 1-mark objective questions to longer 3-5 mark descriptive or numerical questions. It also builds the algebraic foundation for Chapter 4 (Quadratic Equations) and reappears in Class 11 algebra, so a solid grip on this chapter also makes the rest of the Maths syllabus easier to follow.

Revision Notes: Polynomials

Standard form (quadratic): $p(x) = ax^2 + bx + c$, where a, b, c are real numbers and $a \neq 0$

Zero (root) of a polynomial: a real number k such that $p(k) = 0$ — graphically, the x -coordinate(s) where the graph of $y=p(x)$ crosses the x -axis

Degree and zero count: a quadratic polynomial (degree 2) has at most 2 zeroes; a linear polynomial (degree 1) has exactly 1 zero

Relationship between zeroes and coefficients (if α, β are the zeroes of $ax^2 + bx + c$): sum $\alpha + \beta = -b/a$, product $\alpha\beta = c/a$

Finding zeroes: factorise by splitting the middle term (find two numbers whose product is ac and sum is b), or apply the quadratic formula directly

Constructing a polynomial from a given sum and product of zeroes: $x^2 - (\text{sum})x + (\text{product}) = 0$, multiplying through by a suitable constant to clear fractions if needed

Verification step: after finding zeroes, always check $-(\text{coefficient of } x)/(\text{coefficient of } x^2)$ equals your computed sum, and $(\text{constant term})/(\text{coefficient of } x^2)$ equals your computed product

2023 rationalisation: the current syllabus keeps only Exercise 2.1 (finding zeroes of a quadratic and verifying the zero-coefficient relationship) — the earlier, pre-rationalisation edition also covered cubic polynomials, the division algorithm for polynomials, and the relationship between zeroes and coefficients of a cubic, all of which were removed

Know by heart: sum = $-b/a$ (note the minus sign) and product = c/a — the sign of the sum is the single most common slip in this chapter

See also: [Extra Questions \(HOTS\)](#) / [Formulas Handbook](#)

How to Use These Notes

These revision notes are meant for quick recall in the last few days before an exam or unit test — they are not a substitute for first reading the full chapter and working through examples in the NCERT textbook. A good routine is: read the chapter once, solve the in-text and end-of-chapter questions using the linked

Solutions, then come back to this page a day or two before the exam to refresh the key definitions and formulas without re-reading the whole chapter.

Class 10 Mathematics Chapter 2 – Solutions and Important Questions

Need full answers or more practice? See the [Class 10 Mathematics Chapter 2 Solutions](#) and [Class 10 Mathematics Chapter 2 Extra Questions](#).

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