

CLASS 10

MATHS

REVISION NOTES

Revision Notes: Class 10 Maths Chapter 7 Coordinate Geometry

Free Coordinate Geometry Class 10 notes PDF-style revision — every formula from Chapter 7 (distance formula, section formula, area of a triangle) in one place.

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Why This Chapter Matters

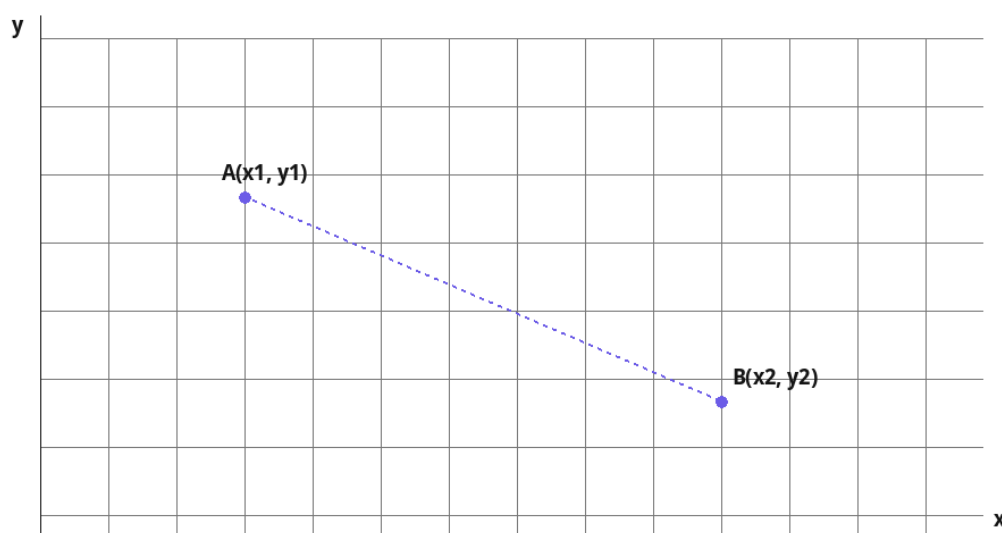
Revision Notes: Coordinate Geometry

How to Use These Notes

Class 10 Mathematics Chapter 7 – Solutions and Important Questions

Free **Coordinate Geometry Class 10 notes PDF**-style revision — every formula from Chapter 7 (distance formula, section formula, area of a triangle) in one place.

A fast, one-glance recap of Class 10 Maths Chapter 7 (Coordinate Geometry) — for full worked explanations, see the [Solutions](#). These Class 10 Mathematics Chapter 7 notes are ideal for quick revision just before exams.



Distance formula: $AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$. Section-formula points divide AB in a given ratio.

Reference figure — two points on the Cartesian plane

Why This Chapter Matters

Coordinate Geometry 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. Because the concepts here often build on earlier chapters (and feed into later ones), a solid grip on this chapter also makes the rest of the Maths syllabus easier to follow.

Revision Notes: Coordinate Geometry

Distance formula: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Distance from origin: $\sqrt{x^2 + y^2}$

Section formula (ratio m:n, internal): $\left(\frac{mx_2 + nx_1}{m+n}, \frac{my_2 + ny_1}{m+n}\right)$

Midpoint formula (m=n): $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

Collinearity test: three points are collinear if the area of the triangle they form is 0

Area of a triangle: $\frac{1}{2}|x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2)|$

Locus equidistant from two points: the perpendicular bisector of the segment joining them

Type of quadrilateral: use all 4 sides + both diagonals together (equal sides + equal diagonals = square; equal sides only = rhombus; opposite sides equal = parallelogram)

2023 rationalisation: only **Ex 7.1 (Distance Formula)** and **Ex 7.2 (Section Formula)** remain as numbered exercises — the old Ex 7.3 (Area of a Triangle) and Ex 7.4 (Optional) were removed, though the area formula itself remains useful (see Extra Questions)

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 7 – Solutions and Important Questions

Need full answers or more practice? See the [Class 10 Mathematics Chapter 7 Solutions](#) and [Class 10 Mathematics Chapter 7 Extra Questions](#).