

Coordinate Geometry Formulas

The list of all coordinate geometry formulas are provided here to help the students refer them easily and recall the concepts effectively. To recall, coordinate geometry is the study of geometry using the coordinate points. In coordinate geometry, the position of a point can be easily defined using coordinates.

Coordinate Geometry Formulas List for Class 9, 10 and 11

Coordinate geometry is an integral topic in class 9, 10 and 11. All the important coordinate geometry formulas for class 9, class 10 and class 11 are given below.

All Formulas of Coordinate Geometry	
General Form of a Line	$Ax + By + C = 0$
Slope Intercept Form of a Line	$y = mx + c$
Point-Slope Form	$y - y_1 = m(x - x_1)$
Slope of a Line Using Coordinates	$m = \Delta y / \Delta x = (y_2 - y_1) / (x_2 - x_1)$
Slope of a Line Using General Equation	$m = -(A/B)$
Intercept-Intercept Form	$x/a + y/b = 1$
Distance Formula	$ P_1P_2 = \sqrt{[(x_2 - x_1)^2 + (y_2 - y_1)^2]}$
For Parallel Lines,	$m_1 = m_2$
For Perpendicular Lines,	$m_1m_2 = -1$
Midpoint Formula	$M(x, y) = [(x_1 + x_2)/2, (y_1 + y_2)/2]$
Angle Formula	$\tan \theta = [(m_1 - m_2) / 1 + m_1m_2]$
Area of a Triangle Formula	$\frac{1}{2} x_1(y_2 - y_3) + x_2(y_3 - y_1) + x_3(y_1 - y_2) $
Distance from a Point to a Line	$d = [Ax_0 + By_0 + C / \sqrt{(A^2 + B^2)}]$

Topics Related to Coordinate Geometry Formulas

Coordinate Geometry For Class 10 (https://byjus.com/maths/coordinate-geometry-for-class-10/)	Coordinate Geometry For Class 9 (https://byjus.com/maths/coordinate-geometry-class-9/)
---	--

Class 10 NCERT Solutions for Coordinate Geometry (https://byjus.com/ncert-solutions-class-10-maths/chapter-7-coordinates-geometry/)	Coordinate Geometry in Two Dimensional Plane (https://byjus.com/maths/two-dimensional-coordinate-geometry/)
Coordinate System (https://byjus.com/maths/coordinate-system/)	Area Of A Triangle In Coordinate Geometry (https://byjus.com/maths/area-triangle-coordinate-geometry/)
Coordinate Geometry Important Questions for Class 10 (https://byjus.com/maths/important-questions-class-10-maths-chapter-7-coordinate-geometry/)	Coordinate Geometry Revision Notes for Class 10 (https://byjus.com/cbse-notes/class-10-maths-revision-notes-chapter-7-coordinate-geometry/)

More Math Formulas

- Geometry Formulas (<https://byjus.com/geometry-formulas/>)
- Algebra Formulas (<https://byjus.com/algebra-formulas/>)
- Trigonometry Formulas (<https://byjus.com/maths/trigonometry-formulas/>)
- All Maths Formulas (<https://byjus.com/math-formulas/>)

Keep visiting BYJU'S and get more such maths formulas and concept explanations for free. Also, download BYJU'S- The Learning App to get video lessons on different maths topics.