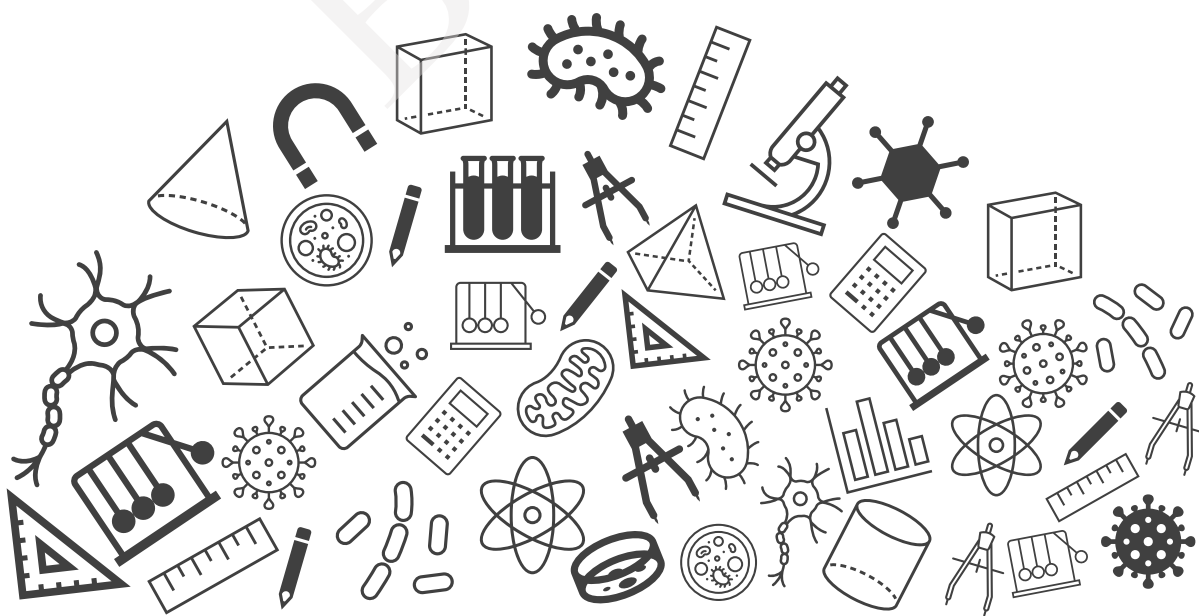# Grade 09
Mathematics Chapter Notes
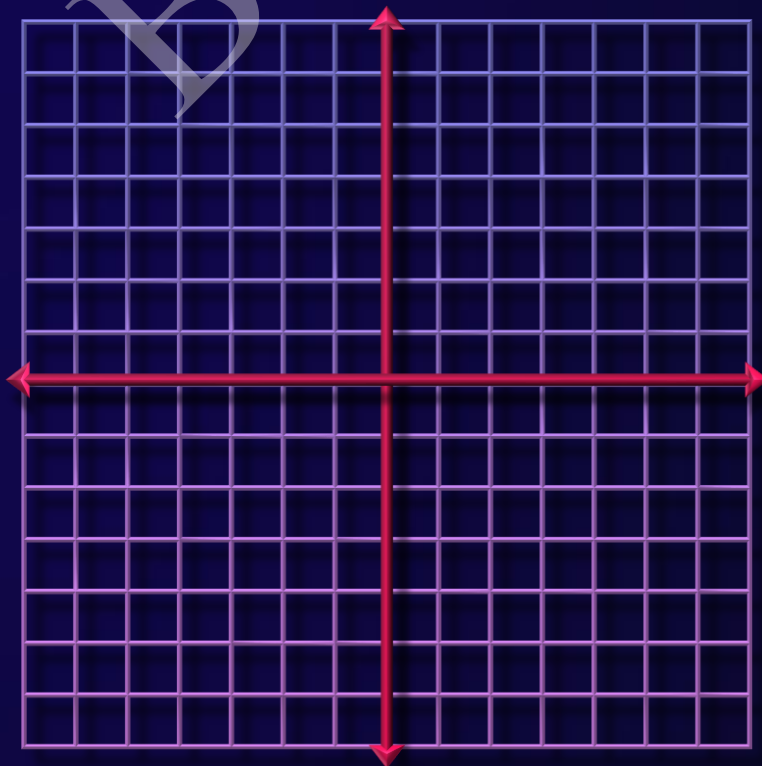
BYJU'S Classes

CHAPTER NOTES

Coordinate Geometry

Grade 9

Topics Covered

1 Cartesian System
      1.1 Axes and Origin
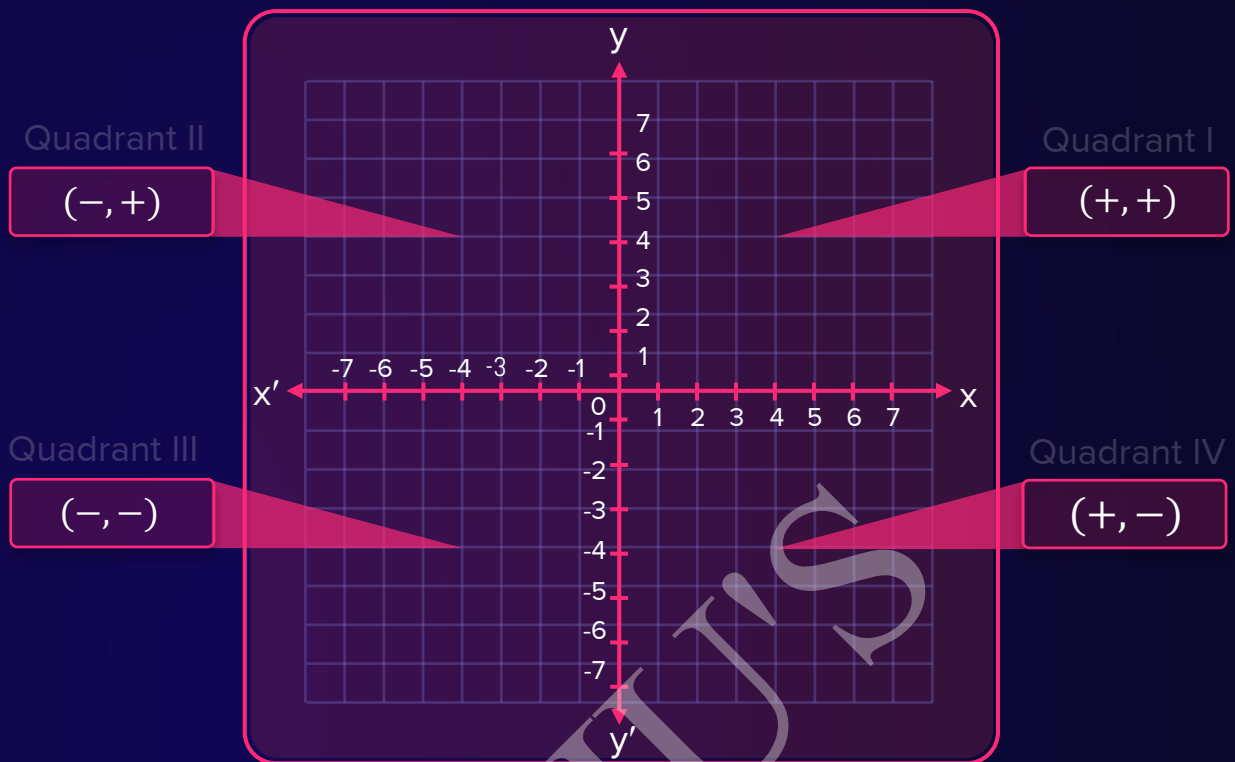   1.2 Quadrants

2 Coordinates of a point
      2.1 Abscissa and Ordinate
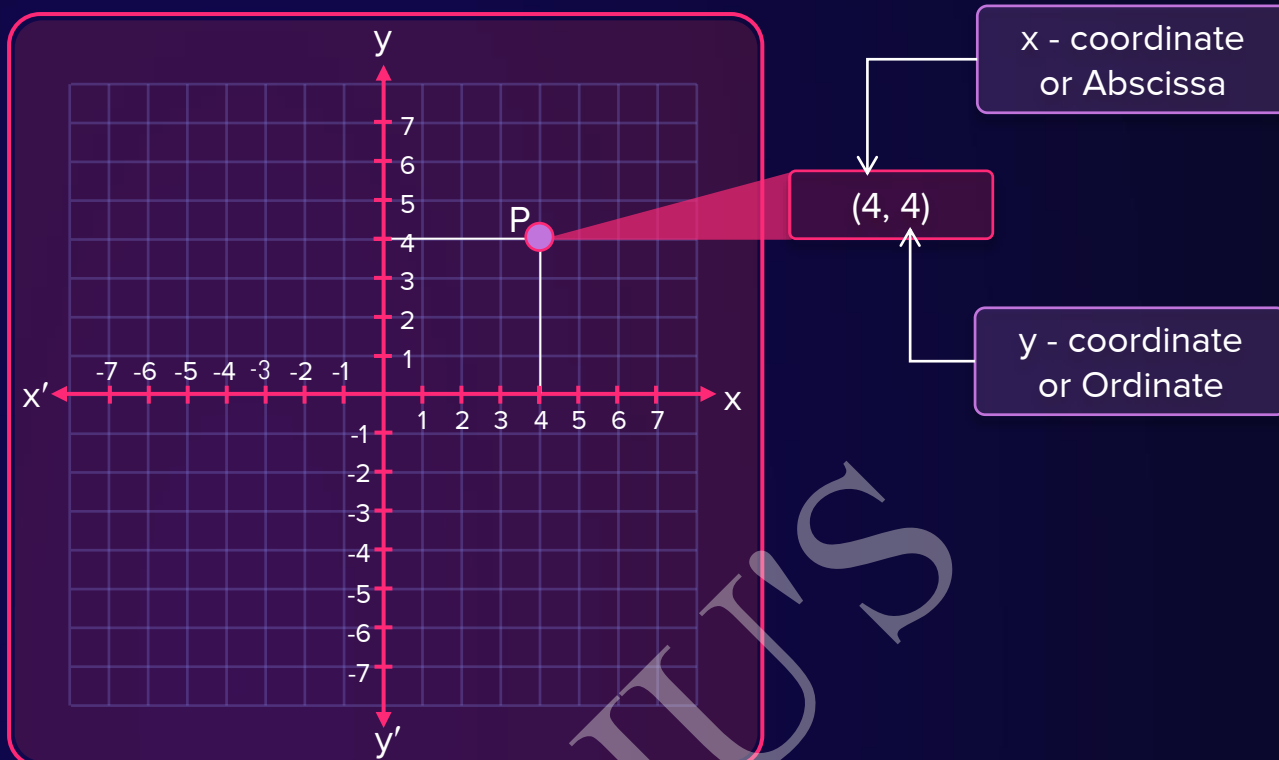   2.2 Identifying Coordinates of a Point

1. Cartesian System

1.1 Axes and the Origin

- X'X is called the x-axis.
- Y'Y is called the y -axis.
- The point where X'X and Y'Y intersect is called the origin (O).

1.2 Quadrants

- The axes divide the plane into four parts.
- These four parts are called the quadrants numbered I, II, III, and IV.

2. Coordinates of a Point

x - coordinate or Abscissa

(4, 4)

y - coordinate or Ordinate

2.1 Determining Coordinates of a Point

Step 1

The x - coordinate of a point is its perpendicular distance from the y - axis measured along the x - axis.

Step 2

The y - coordinate of a point is its perpendicular distance from the x - axis measured along the y - axis.

Step 3

To write the coordinates of a point, the x - coordinate comes first, and then the y - coordinate.

2.2 Abscissa and Ordinate

- The x - coordinate is also called the abscissa.
- The y - coordinate is also called the ordinate.

Mind Map

COORDINATE GEOMETRY

Axes and Origin

Quadrants

Cartesian System

Coordinates of a Point

Abscissa and Ordinate

Identifying Coordinates of a Point