CBSE Class 09 Mathematics

Revision Notes

CHAPTER - 4

LINEAR EQUATIONS IN TWO VARIABLES

- 1. Linear Equations
- 2. Solution of a Linear Equation
- 3. Graph of a Linear Equation in Two Variables
- 4. Equations of Lines Parallel to x-axis and y-axis
 - An equation of the form ax + by + c = 0 where a, b and c are real numbers such that a and b are not both zero is called a linear equation in two variables.
 - A pair of values of x and y which satisfy the equation ax + by + c = 0 is called a solution of the equation.
 - A linear equation in two variables has infinitely many solutions.
 - The graph of every linear equation in two variables is a straight line.
 - y = 0 is the equation of x-axis and x = 0 is equation of y-axis.
 - The graph of x=a is a straight line parallel to the y-axis.
 - The graph of y = a is a straight line parallel to the x-axis.
 - An equation of the type y = mx represent a line passing through the origin.
 - Every point on the graph of a linear equation in two variables is a solution of the
 equation. Conversely, every solution of the linear equation in two variables
 represents a point on the graph of the equation.