

CHAPTER 03

Pair of Linear Equations in Two Variables

In earlier classes, we have studied about linear equations to represents the situations as linear equations, their solutions and their graphs. In this chapter, we will study about pair of linear equations in two variables, various methods of solving them, their algebraic and geometrical interpretation and their applications in real life.

Linear equation:

An equation, which can be expressed in the form $ax + b = 0$, $a \neq 0$ is called a linear equations in the variable 'x' where a & b are real numbers.

Examples:

(i) $7x + 4 = 25 + 4x$

$$7x - 4x - 25 + 4 = 0$$

$$3x - 21 = 0$$

(ii) $2(x - 5) = 7$

$$2x - 10 = 7$$

$$2x - 10 - 7 = 0$$

$$2x - 17 = 0$$

(iii) $2 + xy = 9$

$$2x + 3 = 0$$

Types of Linear equations:



