

CHAPTER 4 LINEAR EQUATIONS IN TWO VARIABLES

NOTES

- 1. A linear polynomial in two variables equated to zero gives a linear equation in two variables.
- 2. The general form of a linear equation in two variables is ax + by + c = 0, where a, b, c are constants and a, b are both non-zero.
- 3. Solution of a Linear Equation in Two Variables

For a linear equation in two variables (say x and y), a pair of values, one for x and one for y

which satisfy the equation is called a solution of the equation.

Note: 1. A linear equation in one variable has a unique solution.

2. A linear equation in two variables has infinitely many solutions.

- 4. The graph of every linear equation in two variables is a straight line.
- The graph of x = c is a straight line parallel to Y-axis, passing through (c, 0). 5.
- The graph of y = c is a straight line parallel to X-axis, passing through (0, c). 6. ある世界の世 (町のの) NT OF EDUCATION (S)
- The graph of x = 0 is the Y-axis. 7.
- The graph of y = 0 is the X-axis. 8.
- The graph of an equation of the type y = kx, where k is a constant, always passes through the origin. 9. Governmen
