

3. ALGEBRA

Learning Outcomes:

- ❖ To solve system of linear equations in three variables by the method of elimination
- ❖ To find GCD and LCM of polynomials
- ❖ To simplify algebraic rational expressions
- ❖ To understand and compute the square root of polynomials
- ❖ To learn about quadratic equations
- ❖ To draw quadratic graphs
- ❖ To learn about matrix, its types and operations on matrices

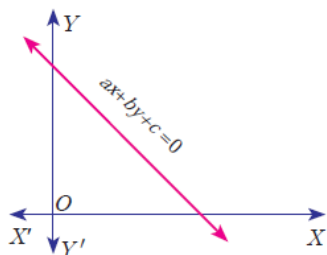
Representation of Linear Equations:

Linear Equation in two variables

Any first degree equation containing two variables x and y is called a linear equation in two variables. The general form of linear equation in two variables x and y is $ax+by+c=0$, where atleast one of a , b is non-zero and a , b , c are real numbers.

Note that linear equations are first degree equations in the given variables.

➤ A linear equation in two variables of the form $ax+by+c=0$, represents a straight line.



➤ A linear equation in three variables of the form $ax+by+cz+d=0$, represents a plane.

