

Mathematics 1 - Basics of Algebra

Topics : [Computer engineering](#)

Written on [March 06, 2024](#)

1. Variables and Constants:

- Variables represent unknown quantities, typically denoted by letters like x , y , a , b , etc.
- Constants are fixed values that do not change.

2. Expressions:

- Algebraic expressions combine variables, constants, and mathematical operations like addition, subtraction, multiplication, and division.

3. Terms:

- Terms are parts of expressions separated by addition or subtraction.

4. Coefficients:

- Coefficients are the numerical factors of terms in expressions.

5. Equations:

- Equations assert the equality of two expressions using an equal sign ($=$).

6. Inequalities:

- Inequalities compare expressions using symbols like $<$, $>$, \leq , or \geq .

7. Operations:

- Basic operations include addition ($+$), subtraction ($-$), multiplication (\times), and division (\div).

8. Factoring:

- Factoring expresses an expression as the product of its factors.

9. Solving Equations and Inequalities:

- Solving involves manipulating expressions to isolate variables and find their values.

10. Graphing:

11. Graphing represents equations and inequalities visually on a coordinate plane.

ARYATECHNO