

- Algebraic expressions are expressions formed from the variables and the constants. A variable can take any value. The value of an expression changes with the value chosen for variables it contains.
- Any expression having one or more terms is called polynomial.
- A monomial is obtained on multiplying any monomial with another monomial.
- The numerical factor of a term is called its coefficient.
- An identity is a standard equality which is true for all the values of the variables in the equality.
- Few commonly used identities are:

$$(a + b)^2 = a^2 + b^2 + 2ab$$

$$(a - b)^2 = a^2 + b^2 - 2ab$$

$$(a + b)(a - b) = a^2 - b^2$$

$$(x + a)(x + b) = x^2 + (a + b)x + ab.$$