

Chapter 12

Algebraic Expressions

Points to remember

- Algebraic expressions are formed from variables and constants.
- A quantity having a fixed numerical value is called a constant whereas a quantity having different numerical values is called a variable.
- Expressions are made up of terms.
- Terms which have the same algebraic factors are like terms and terms which have different algebraic factors are unlike terms.
- Any expression with one or more terms is called a polynomial. A one term expression is called monomial, a two-term expression is called binomial and a three term expression is called trinomial.
- The highest power of the variable is the degree of an algebraic expression.
- Rules and formula are written in a concise and general form using algebraic expressions.

QUESTIONS:

1. What is the coefficient of variable x^2 in the algebraic expression?
 - a. $7x^3 - 5x^2 + 3$
 - b. $\frac{3}{2}x^2 + 9$
 - c. $6 + 3x + 2x^2$
2. Add the like terms:
 $-4ab^2, 9b^2a, 7ab^2$
3. Subtract $(2x - y)$ from $(4x - 3y + 6)$
4. Find the value of $7 - 55x$, if $x = -3$.
5. Simplify: $4a(2 - b) - (2a - ab)$.
6. If $p = -2$ and $q = 3$, then what will be the value of $p^2 - q^2 + pq$.
7. Add: $12xy, -20yx, 28xy$.

Algebra Chapter 12

SA Adler



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