

6

Operations on Algebraic Expressions



In our previous class we have learnt about the addition and subtraction of algebraic expressions. However, we shall give a quick revision of the same and extend the ideas of multiplication and division on algebraic expressions.

ADDITION OF ALGEBRAIC EXPRESSIONS While adding algebraic expressions we collect the like terms and add them. The sum of several like terms is the like term whose coefficient is the sum of the coefficients of these like terms.

EXAMPLE 1. Add: $6a + 8b - 5c$, $2b + c - 4a$ and $a - 3b - 2c$.

Solution Writing the terms of the given expressions in the same order in form of rows with like terms below each other and adding columnwise, we get:

$$\begin{array}{r} 6a + 8b - 5c \\ -4a + 2b + c \\ a - 3b - 2c \\ \hline 3a + 7b - 6c \end{array}$$

EXAMPLE 2. Add: $5x^2 + 3x - 8$, $4x + 7 - 2x^2$ and $6 - 5x + 4x^2$.

Solution Writing the given expressions in descending powers of x in the form of rows with like terms below each other and adding columnwise, we get:

$$\begin{array}{r} 5x^2 + 3x - 8 \\ -2x^2 + 4x + 7 \\ 4x^2 - 5x + 6 \\ \hline 7x^2 + 2x + 5 \end{array}$$

EXAMPLE 3. Add: $8x^2 - 5xy + 3y^2$, $2xy - 6y^2 + 3x^2$ and $y^2 + xy - 6x^2$.

Solution Arranging the given expressions in descending powers of x with like terms under each other and adding columnwise, we get:

$$\begin{array}{r} 8x^2 - 5xy + 3y^2 \\ 3x^2 + 2xy - 6y^2 \\ -6x^2 + xy + y^2 \\ \hline 5x^2 - 2xy - 2y^2 \end{array}$$

SUBTRACTION OF ALGEBRAIC EXPRESSIONS

- Steps:**
- Arrange the terms of the given expressions in the same order.
 - Write the given expressions in two rows in such a way that the like terms occur one below the other, keeping the expression to be subtracted in the second row.

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J. P. Letellier



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