

BINOMIAL THEOREM

8.1 Overview:

8.1.1 An expression consisting of two terms, connected by + or – sign is called a binomial expression. For example, $x + a$, $2x - 3y$, $\frac{1}{x} - \frac{1}{x^2}$, $7x - \frac{4}{5y}$, etc., are all binomial expressions.

8.1.2 Binomial theorem

If a and b are real numbers and n is a positive integer, then

$$(a + b)^n = {}^nC_0 a^n + {}^nC_1 a^{n-1} b^1 + {}^nC_2 a^{n-2} b^2 + \dots$$

$$\dots + {}^nC_r a^{n-r} b^r + \dots + {}^nC_n b^n, \text{ where } {}^nC_r = \frac{n!}{r!(n-r)!} \text{ for } 0 \leq r \leq n$$

The general term or $(r + 1)^{\text{th}}$ term in the expansion is given by

$$T_{r+1} = {}^nC_r a^{n-r} b^r$$

8.1.3 Some important observations

1. The total number of terms in the binomial expansion of $(a + b)^n$ is $n + 1$, i.e. one more than the exponent n .
2. In the expansion, the first term is raised to the power of the binomial and in each subsequent terms the power of a reduces by one with simultaneous increase in the power of b by one, till power of b becomes equal to the power of binomial, i.e., the power of a is n in the first term, $(n - 1)$ in the second term and so on ending with zero in the last term. At the same time power of b is 0 in the first term, 1 in the second term and 2 in the third term and so on, ending with n in the last term.
3. In any term the sum of the indices (exponents) of ' a ' and ' b ' is equal to n (i.e., the power of the binomial).
4. The coefficients in the expansion follow a certain pattern known as pascal's triangle.

Chapter 8 Binomial Theorem

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