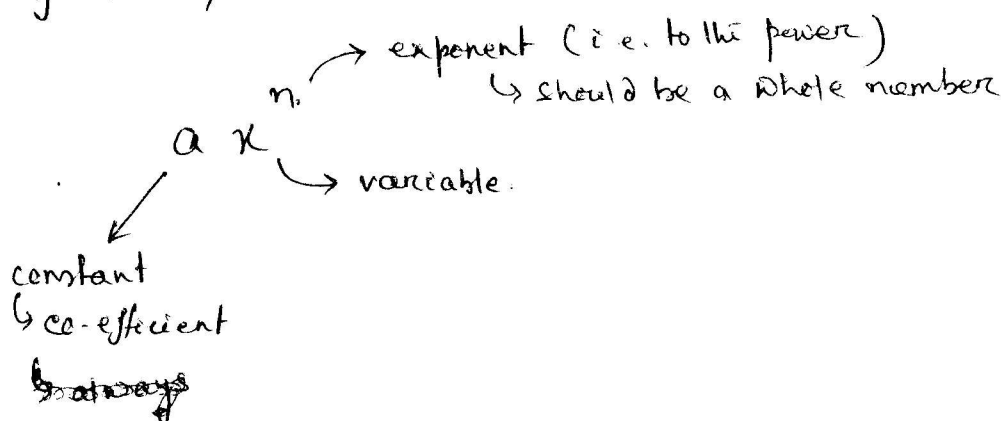


POLYNOMIALS

Term of a Polynomial



1. Polynomials in one variable

$$\underbrace{a_n x^n}_{(T_1)} + \underbrace{a_{n-1} x^{n-1}}_{(T_2)} + \underbrace{a_{n-2} x^{n-2}}_{(T_3)} + \dots + a_1 x^1 + a_0 x^0$$

↳ i.e. here the variable is x

↳ co-efficient of x^n is a_n

x^{n-1} is a_{n-1}

x^{n-2} is a_{n-2}

↳ T_1, T_2, T_3 , etc are terms of the polynomial expression.

↳ ~~ex~~ exponent of Term T_1 is n

" " " T_2 is $n-1$

" " " T_3 is $n-2$ & like-wise.

↳ d is also called a polynomial — constant polynomial.

↳ the constant polynomial 0 is called Zero Polynomial

2. Polynomials of multi variables : $a x^n + b y^m + c z^p + d$

Where n, m & p are exponents
 x, y & z are variables