

Chapter 02

POLYNOMIALS

Factor Theorem:

If $f(x)$ be a Polynomial and ' a ' be a real number. Then
 $(x-a)$ is a factor of $f(x) \Leftrightarrow f(a)=0$.

NOTE:

- $f(x)$ is a polynomial then $(x-1)$ is a factor of $f(x)$ if the sum of co-efficients of powers of ' x ' in $f(x)$ is zero.
- $f(x)$ is a polynomial then $(x+1)$ is a factor of $f(x)$ if the sum of co-efficients of even powers of ' x ' is equal to the sum of the co-efficients of odd powers of ' x ' in $f(x)$.