

# Chapter 1

## Analysis Technology

### 1.1 Serial and Limit

a serial  $\longleftrightarrow$  the natural number set

give a relation onto this serial: distance as a real number.

then we can definite the order relation between the elements of a serial according the distance.

**Theorem 1.1.1** *for a serial that has boundary, there is an accumulation point at least. (Bolzano-Weierstrass)*

Cauchy

### 1.2 Series

### 1.3 Derivative

### 1.4 Differential Coefficient

### 1.5 Integral