CONCEPT MAP

SEQUENCES AND SERIES

Sequence

A sequence is a function from natural number N (domain) to real numbers (codomain)

Series

If $a_1, a_2, ..., a_n$ is a sequence, then the expansion $a_1 + a_2 + ... + a_n$ is called the series.

Progression

If the terms of a sequence are written under specific conditions, then the sequence is called progression.

Types of Progression

Sum of n terms of Special Series

- Sum of n natural numbers $\sum n = \dfrac{n(n+1)}{2}$
- Sum of squares of n natural numbers $\sum n^2 = \dfrac{n(n+1)(2n+1)}{6}$
- Sum of cubes of n natural numbers $\sum n^3 = \dfrac{n^2(n+1)^2}{4} = \left(\sum n\right)^2$
- $\dfrac{1}{1 \cdot 2} + \dfrac{1}{2 \cdot 3} + ... + \dfrac{1}{n(n+1)} = \dfrac{n}{n+1}$
- $1 \cdot 2 + 2 \cdot 3 + ... + n(n+1) = \dfrac{n(n+1)(n+2)}{3}$

Arithmetic Progression (A.P.)

A sequence whose terms increases or decreases by a fixed number.

n^{th} **term** : $T_n = a + (n-1)d$
where d (common difference) $= T_n - T_{n-1}$, $a = $ first term.

n^{th} **term from end**
$T_n' = l - (n-1)d$, where $l = $ last term

Sum of n terms
$S_n = \dfrac{n}{2}[2a + (n-1)d] = \dfrac{n}{2}[a+l]$

Note
- 3 terms in an A.P. $a - d, a, a + d, a + 2d$
- 4 terms in an A.P. $a - 2d, a - d, a, a + d, a + 2d$

Basic Properties
- If $a_1, a_2, a_3, ..., a_n$ are in A.P. with common difference d, then
  - $a_1 \pm x, a_2 \pm x, ..., a_n \pm x$ are also in A.P. where x is constant.
  - $ka_1, ka_2, ..., ka_n$ are also in A.P. with common difference kd.
  - $\dfrac{a_1}{k}, \dfrac{a_2}{k}, \dfrac{a_3}{k}, ..., \dfrac{a_n}{k}$ are also in A.P. with common difference, $\dfrac{d}{k}, k \neq 0$.

Geometric Progression (G.P.)

A sequence of non-zero numbers for which the ratio of a term to its just preceding term is always constant.

n^{th} **term** : $T_n = ar^{n-1}$, where r(common ratio) $= T_n/T_{n-1}$, $a = $ first term

n^{th} **term from end** : $T_n' = l/r^{n-1}$, $l = $ last term

Sum of n terms
$$S_n = \begin{cases} \dfrac{a(r^n - 1)}{r - 1}, & r > 1 \\ \dfrac{a(1 - r^n)}{1 - r}, & r < 1 \\ an, & r = 1 \end{cases} \quad ; S_\infty = \dfrac{a}{1-r}, |r| < 1$$

Note
- 3 terms in G.P. $a/r, a, ar$.
- 4 terms in G.P. $a/r^2, a/r, a, ar$.

Basic Properties
- If $a_1, a_2, a_3, ..., a_n$ are in G.P., with common ratio r then
  - $\dfrac{1}{a_1}, \dfrac{1}{a_2}, \dfrac{1}{a_3}, ..., \dfrac{1}{a_n}$ also in G.P. with common ratio $1/r$.
  - $ka_1, ka_2, ka_3, ..., ka_n$ or $\dfrac{a_1}{k}, \dfrac{a_2}{k}, \dfrac{a_3}{k}, ...,$ $(k \neq 0)$ also in G.P. with common ratio r.
  - $a_1^n, a_2^n, a_3^n, ... a_n^n$ also in G.P. with common ratio r^n.
  - $a_1 a_n = a_k \cdot a_{n-k+1}, \forall k = 1, 2, 3, ..., n-1$

Means

Arithmetic mean (A.M.)
- For two numbers a and b, A.M. is $\dfrac{a+b}{2}$.
- $A_r = a + r\left(\dfrac{b-a}{n+1}\right), \forall r = 1, 2, ..., n$
  where $A_1, ..., A_n$ are n arithmetic means inserted between two numbers a and b.

Geometric mean (G.M.)
- For two numbers a and b, G.M. is $\sqrt{ab}$.
- $G_k = a\left(\dfrac{b}{a}\right)^{\frac{k}{n+1}} \forall k = 1, 2, 3, ..., n$
  where $G_1, ..., G_n$ are n geometric means inserted between two numbers a and b.

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