arithmetric Series N= first n terms $S_n = \frac{N}{2}(2a + (n-1)d)$ a = first term d = common difference Find first 10 terms of the arithmetic series n/ first term (So=3) and Common difference (d=4) $S_0^2 = \frac{10}{2} (2 \times 3) + (10 - 1) (4)$ S10= 5(6+36) = 30 + 180 = 2100

Series $\{Sn\}$ n=0.1.2...

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Sn= ao + aı + az.... eg: S1 = ao + a1, S2 = ao + a1 + az...

A sum of the elements of another sequence.

Can be indicated w/ Σ (sigma) eg $Sn = \sum_{i=0}^{n} a_i$