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Dashboard > Mathematics > Fundamentals > Summing the N series

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## Summing the N series **■**

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## **Closed Form**

An equation is said to be a closed-form solution if it solves a given problem in terms of functions and mathematical operations from a given generally-accepted set.

For example, the sum of the first  $oldsymbol{N}$  numbers is given by the closed form

$$\sum_{i=0}^{N}i=rac{N imes(N+1)}{2}$$

A great tool to find closed form is a search tool The On-Line Encyclopedia of Integer Sequences.

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