

Formulas for Sequences and Series

Formulas for sums of special series	$\sum_{i=1}^n 1 = n \quad \sum_{i=1}^n i = \frac{n(n+1)}{2}$ $\sum_{i=1}^n i^2 = \frac{n(n+1)(2n+1)}{6}$
The n th term of an arithmetic sequence with first term a_1 and common difference d	$a_n = a_1 + (n-1)d$
The sum of the first n terms of an arithmetic series	$S_n = n \left(\frac{a_1 + a_n}{2} \right)$
The n th term of a geometric sequence with first term a_1 and common ratio r	$a_n = a_1 r^{n-1}$
The sum of the first n terms of a geometric series with common ratio $r \neq 1$	$S_n = a_1 \left(\frac{1-r^n}{1-r} \right)$
The sum of an infinite geometric series with first term a_1 and common ratio equals r	$S_\infty = \left(\frac{a_1}{1-r} \right) \quad r < 1$
Recursive equation for an arithmetic sequence where d is the common difference	$a_n = a_{n-1} + d$
Recursive equation for a geometric sequence and common ratio equals r	$a_n = r(a_{n-1})$

Infinite Sequences And Series Cheat Sheet

Anthony S. Fauci



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add 10 milliliters 2 teaspoons of water to two separate cups 3 at the same time pour the water into the sugar and salt cups 4 gently swirl the cups to see whether sugar or salt dissolves the most expected results

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