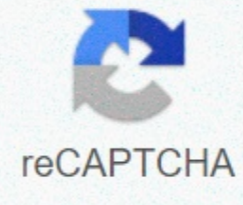




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Partial sum formula geometric

We have seen that the sum of the first n terms of a geometric series with first term a and common ratio r is $S_n = \frac{a(1 - r^{n+1})}{1 - r}$, for $r \neq 1$. In the case when r has magnitude less than 1, the term r^{n+1} approaches 0 as n becomes very large. So, in this case, the sequence of partial sums S_1, S_2, S_3, \dots has a limit: $\lim_{n \rightarrow \infty} S_n = \lim_{n \rightarrow \infty} \frac{a(1 - r^{n+1})}{1 - r} = \frac{a}{1 - r}$. The value of this limit is called the limiting sum of the infinite geometric series. The values of the partial sums S_n of the series get as close as we like to the limiting sum, provided n is large enough. The limiting sum is usually referred to as the sum to infinity of the series and denoted by S_∞ . Thus, for a geometric series with common ratio r such that $|r|$

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