Example: Let a and r be any real constants.

Def: A _finite_ **geometric series** has the form

Let $S_n = \displaystyle\sum_{k=0}^{n} a\,r^k = a + ar + ar^2 + ar^3 + \dots + ar^n$.

Then $rS_n = \displaystyle\sum_{k=0}^{n} a\,r^{k+1} = ar + ar^2 + ar^3 + \dots + ar^n + ar^{n+1}$.

$(1-r)S_n = a \qquad\qquad\qquad\qquad\qquad -ar^{n+1}$

$$\boxed{S_n = a\left(\frac{1-r^{n+1}}{1-r}\right)} \text{ if } r \neq 1$$

Exercise: What happens if $r = 1$?

What about the _infinite_ **geometric series**? $\quad S = \displaystyle\sum_{k=0}^{\infty} a\,r^k = \lim_{n\to\infty} S_n = \lim_{n\to\infty} a\left(\frac{1-r^{n+1}}{1-r}\right)$

$= \dfrac{a}{1-r}\left(1 - \displaystyle\lim_{n\to\infty} r^{n+1}\right) \Rightarrow \boxed{S = \dfrac{a}{1-r}}$ if and only if $\boxed{-1 < r < 1}$, i.e. $\boxed{|r| < 1}$

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