

## Basic Calculus Review: Infinite Series

**Example:** Let  $a$  and  $r$  be any real constants.

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

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

$$\text{Then } rS_n = \sum_{k=0}^n ar^{k+1} = ar + ar^2 + ar^3 + \dots + ar^n + ar^{n+1}.$$

---

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

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

**Exercise:** What happens if  $r = 1$ ?

What about the infinite geometric series?  $S = \sum_{k=0}^{\infty} ar^k = \lim_{n \rightarrow \infty} S_n = \lim_{n \rightarrow \infty} a \left( \frac{1-r^{n+1}}{1-r} \right)$

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

# Calculus Infinite Series I

**Guillaume Favre**



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