



DEPARTAMENTO DE
MATEMÁTICA

Here comes the presentation title

You

Universidade Federal de Santa Catarina

21 de maio de 2021

Section one

References

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Definition

Given an infinite sequence $\{x_k\}_{k \in \mathbb{N}}$, the *k*th partial sum S_k is the sum of the first *k* terms of the sequence, that is,

$$S_k = \sum_{n=1}^k x_n.$$

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A series converges if $\exists L \in \mathbb{R}$ such that $\forall \varepsilon \in \mathbb{R}, \varepsilon > 0, \exists N \in \mathbb{N}$ (sufficiently large) such that $\forall n \geq N$,

$$|S_n - L| < \varepsilon.$$

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References



DO CARMO, M. P., *Differential Geometry of Curves and Surfaces*, Rio de Janeiro: Instituto de Matemática Pura e Aplicada (IMPA), 1976.