A Simple LaTeX Article

JaxEdit Project

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1 Long Introduction

We have the Cauchy-Schwarz inequality:

$$\left(\sum_{k=1}^{n} a_k b_k\right)^2 \leq \left(\sum_{k=1}^{n} a_k^2\right)\left(\sum_{k=1}^{n} b_k^2\right)$$

where a_k and b_k are real numbers, for any k.

2 Calculus

Theorem 1 *If we have the following conditions:*

1. $f(x)$ *is continuous on* $[a, b]$,
2. $f(x)$ *is differentiable on* (a, b),
3. $f(a)$ *and* $f(b)$ *are equal,*

Then there exists $\xi \in (a, b)$ *such that* $f'(\xi) = 0$.