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Foreword

This booklet contains some of the frequently used theorems that I simply cannot remember and always have to waste time searching for the theorem. Proofs may or may not be included depending on how I find them relevant. Note that these theorems are introduced based on the curriculum of my varsity.

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Chapter 1

General

Chapter 2

Calculus/Analysis

Theorem 2.0.1 (Mean Value Theorem)

$$\begin{array}{l} \forall a, b \in \mathbb{R} \\ f : [a, b] \rightarrow \mathbb{R} \text{ differentiable in } (a, b) \implies \\ \exists c \in (a, b) \quad f'(c) = \frac{f(b) - f(a)}{b - a} \end{array}$$