Homework Template

Student: John Rizzo

Course: CS556-B Mathematical Foundations of Data Science

Instructor: Dr. Nikhil Muralidhar

Due Date: January 23, 2025

Description: HW 1 Linear Algebra

Problem 1

Alpha α Beta β

Gamma γ Epsilon ϵ

Summation $\sum_{n=1}^{\infty}$

Combining Super/Sub Scripts

$$T_{j_1 j_2 \ldots j_q}^{i_1 i_2 \ldots i_p} = T(x^{i_1}, \ldots, x^{i_p}, e_{j_1}, \ldots, e_{j_q})$$

$$\cos(\alpha), \log(x) etc.$$

$\|a\|$

$\hat{a}$

$\vec{a}$

$a \times b$

$[123]$

$a \cdot b$

Empty Set $\emptyset$

Derivative $\frac{d^n y}{dx^n}$

Problem 2

Problem 3