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# 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  $\alpha$  Beta  $\beta$

Gamma  $\gamma$  Epsilon  $\epsilon$

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

Combining Super/Sub Scripts

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

$$\cos(\alpha), \log(x) \text{ etc.}$$

$$E = mc^2$$

## Problem 2

## Problem 3

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