

# Sample Technical Document

Your Name

April 2025

## 1 Introduction

This document demonstrates basic mathematical notations using LaTeX.

## 2 Mathematical Examples

Below are some sample equations.

### 2.1 Quadratic Formula

The quadratic formula solves equations of the form  $ax^2 + bx + c = 0$ :

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (1)$$

### 2.2 Summation

A simple summation example:

$$\sum_{i=1}^n i = \frac{n(n+1)}{2} \quad (2)$$

## 3 Conclusion

These equations are rendered using LaTeX and can be compiled into a PDF.