

Sample L^AT_EX Document

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1 Introduction

This is a sample L^AT_EX document that demonstrates various features and formatting options.

2 Mathematical Equations

Here are some examples of mathematical equations:

Inline equation: $E = mc^2$

Display equation:

$$\int_a^b f(x) dx = F(b) - F(a) \quad (1)$$

Matrix example:

$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \quad (2)$$

3 Tables

Here's a sample table:

Item	Quantity	Price
Apples	5	\$2.50
Oranges	3	\$1.80
Bananas	6	\$3.00

Table 1: Sample Fruit Prices

4 Lists

4.1 Bullet Points

- First item

- Second item
- Third item

4.2 Numbered List

1. First step
2. Second step
3. Third step

5 References

You can reference the table above as Table ??.