

# Sample LaTeX Document

Your Name

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## 1 Introduction

This is a sample document to test LaTeX compilation using Docker. LaTeX is a powerful typesetting system that is widely used for scientific and academic papers.

## 2 Features

Here are some features we are demonstrating:

- Section headings
- Lists
- Simple mathematical formulas

## 3 Math Example

Here is a simple equation:

$$E = mc^2 \tag{1}$$

## 4 Conclusion

This concludes our simple test document. If this compiles correctly, you should see the title, sections, and math formula rendered properly.