

1 Introduction

This is a sample LaTeX document. LaTeX is a high-quality typesetting system that is particularly useful for technical and scientific documents.

Inline math: The quadratic formula is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.

Display math:

$$E = mc^2 \quad (1)$$

A more complex equation:

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi} \quad (2)$$

2 Basic Formatting

4 Tables

2.1 Text Formatting

Here's a simple table:

You can use **bold text**, *italic text*, and underlined text. You can also use `monospace text` for code.

2.2 Lists

Here's an unordered list:

- First item
- Second item
- Third item

And here's an ordered list:

1. First numbered item
2. Second numbered item
3. Third numbered item

3 Mathematics

LaTeX excels at typesetting mathematics. Here are some examples:

5 References

You can reference sections, equations, and tables. For example, see Table ?? or Equation ??.

6 Conclusion

This sample document demonstrates many of the basic features of LaTeX. For more information, visit <https://www.latex-project.org/>.