A Minimal Template: Demonstration of LaTeX Environments

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Abstract

This is a sample abstract.

1 Introduction

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1.1 Sample Equation

Consider the following equation:

$$\int_{\Omega} u(x) \, \mathrm{d}x = 0. \tag{1}$$

2 Mathematical Environments

Theorem 2.1 (Sample Theorem). Let $x \in \mathbb{R}$. Then for all x, we have $|x| \geq 0$.

Proof. Trivially, by the definition of absolute value.

Lemma 2.2 (Sample Lemma). For any $a, b \in \mathbb{R}$, $|a+b| \leq |a| + |b|$.

Proposition 2.3 (Sample Proposition). If x > 1, then $x^2 > 1$.

Corollary 2.4 (Sample Corollary). If x > 1, then $x^4 > 1$.

Definition 2.5 (Sample Definition). A set S is bounded if there exists M > 0 such that |x| < M for all $x \in S$.

Remark 2.6. This is a remark. Lorem ipsum dolor sit amet, consectetur adipiscing elit.

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3 Figures and Tables

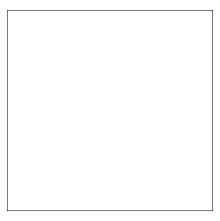


Figure 1: A sample figure.

Method	Accuracy	Time (s)
A	95%	1.23
В	93%	0.98

Table 1: Sample comparison table.

4 Citation Example

As shown in Theorem 2.1, the absolute value is always non-negative.

5 Conclusion

Lorem ipsum dolor sit amet. Suspendisse nec luctus dui.

References

[1] Qiang Du, Lili Ju, Xiao Li, and Zhonghua Qiao. Maximum bound principles for a class of semi-linear parabolic equations and exponential time-differencing schemes. SIAM Rev., 63(2):317–359, 2021.