

Title of the Article

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Abstract. Write your abstract here. One paragraph, 100–200 words. State the problem, the method, and the main results.

Keywords: first keyword, second keyword, third keyword
MSC (2020): 00X00, 00Y00

1. INTRODUCTION

This file is a template for the *Uzbek Mathematical Journal* (UzMJ). Compile it with `pdflatex` to see a sample of how your article will appear in print. Replace the example content with your own text.

To cite a reference, use `\cite{key}`, for example [1]. To refer to an equation, use `\eqref{label}`, for example (3.1). To refer to a section, figure, or table, use `\ref{label}`, for example Section 2 or Figure 1.

2. THEOREM-LIKE ENVIRONMENTS

The following environments are available. Each environment type is numbered separately within each section.

Definition 2.1. Write your first definition here.

Definition 2.2. Write your second definition here. Definitions have their own numbering.

Theorem 2.1. *State your first theorem here.*

Proof. Write the proof here. The end-of-proof symbol appears automatically. □

Theorem 2.2. *State your second theorem here. Theorems have their own numbering.*

Proof. Write the proof here. □

Lemma 2.1. *Statement of the first lemma.*

Lemma 2.2. *Statement of the second lemma. Lemmas have their own numbering.*

Proposition 2.1. *Statement of the proposition.*

Corollary 2.1. *A corollary of Theorem 2.1.*

Remark 2.1. Add a remark here.

Example 2.1. Write an example here.

3. EQUATIONS

Use the `equation` environment for a single numbered equation:

$$\frac{\partial u}{\partial t} = \Delta u + f(x, t), \quad x \in \Omega, \quad t > 0. \quad (3.1)$$

Use `align` for a group of equations aligned at `&`:

$$u_t = \Delta u + f, \quad (3.2)$$

$$u|_{\partial\Omega} = 0, \quad (3.3)$$

$$u|_{t=0} = u_0. \quad (3.4)$$

Reference equations with `\eqref`: problem (3.2)–(3.4).

For a display-mode formula without a number, use `\[...\]`:

$$\|u\|_{L^2(\Omega)}^2 = \int_{\Omega} |u(x)|^2 dx.$$

For inline mathematics use `$...$`: let $f \in L^2(\Omega)$.

4. FIGURES

Place figures in a subfolder named after your surname, for example `Surname/figure1.png`. Use `.png` for raster images and `.pdf` or `.eps` for vector graphics.

Always put the `\label` *after* the `\caption`. Figure captions go *below* the figure.

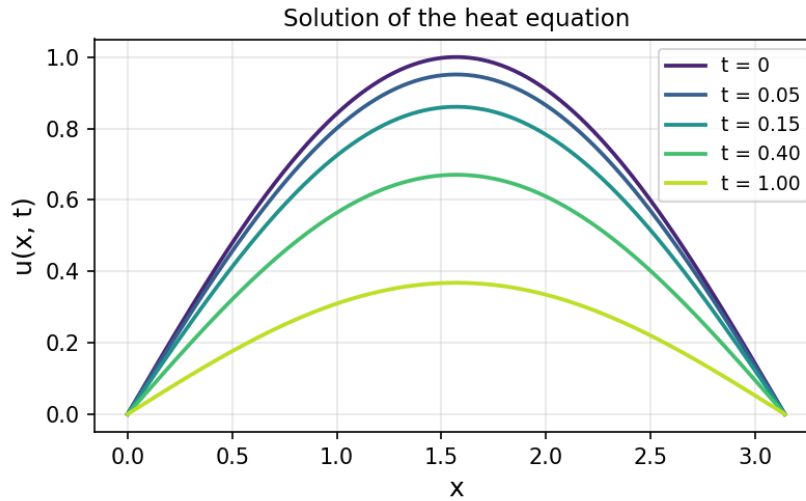


FIGURE 1. Caption describing what the figure shows.

Two figures side by side:

Reference figures with `\ref`: see Figure 1.

5. TABLES

Table captions go *above* the table. Always put `\label` immediately after `\caption`.

TABLE 1. Numerical errors for different values of N .

N	L^2 error	CPU time (s)
10	1.24×10^{-3}	0.01
100	1.37×10^{-5}	0.12

Reference tables with `\ref`: see Table 1.

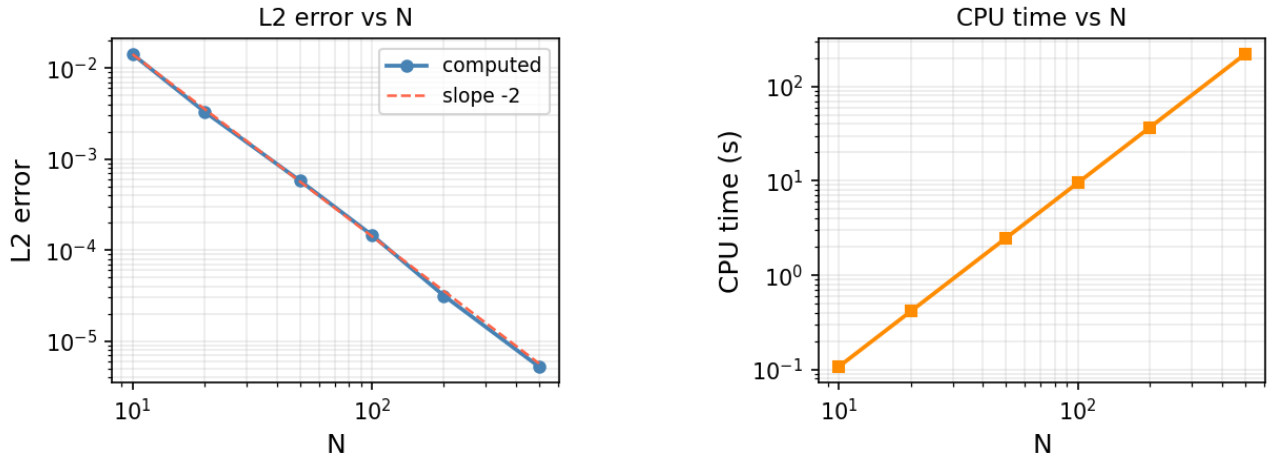


FIGURE 2. Left: first result. Right: second result.

6. SUBMISSION AND FILE NAMING

Surname throughout this template means the surname of the *first author*, written with a capital first letter (e.g., Ivanov, not ivanov or IVANOV).

Step 1 — Initial submission. Send a single **PDF file** (Surname.pdf) to the editorial office. Source files are not required at this stage.

Step 2 — Copy-editing (after acceptance). Prepare a compressed archive (.zip or .rar) with the following structure:

```
Surname.zip
Surname.tex      <- LaTeX source (this file, renamed)
Surname.bib      <- bibliography database
Surname.pdf      <- compiled PDF
Surname/         <- subfolder for figures and extra files
  figure1.png
  figure2.pdf
  ...
```

All filenames use the *first author's* surname. The figure subfolder must also carry that surname so that paths such as `\includegraphics{Surname/figure1.png}` work correctly when the editorial office compiles the issue.

File naming rules:

- Use only ASCII letters and digits — no spaces, no Cyrillic, no special characters.
- Do not use generic names such as `paper.tex` or `article.tex`.
- If two authors share the same surname, append an initial: `IvanovA.tex`.

7. REFERENCES AND THE .BIB FILE

References are managed with a .bib file whose name matches your .tex file: Surname.bib.

Allowed entry types: @article, @book, @inproceedings, @incollection.

Prohibited fields: url, doi, isbn, issn, eprint, note.

The **author** field must use the form *Last, F.* separated by **and**:

```
@article{Author2020,
  author = {Smith, J. and Jones, A. B.},
  title  = {Title of the article},
```

```
journal = {Journal Name},  
year    = {2020},  
volume  = {15},  
pages   = {1--20},  
}
```

```
@book{BookKey2018,  
author   = {Brown, C.},  
title    = {Title of the Book},  
publisher = {Publisher Name},  
year     = {2018},  
}
```

REFERENCES

- [1] Author A., Second B., On the stability of difference schemes for parabolic equations. Uzbek Math. J. (2020) Vol. 64, Iss. 2, P. 5–18.

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