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Abstract: The abstract must not exceed ten lines. Here we present a concise description of the main purpose, methods and results of the paper. The abstract should be written as a single paragraph.

2020 Mathematics Subject Classification: Primary 35B65; Secondary 35J70, 35R09.

Keywords: first keyword; second keyword; third keyword.

1. Introduction

The introduction should present the motivation, background and main contributions of the paper. Citations may be included using the standard numerical style, for instance [3, 4].

The rest of the manuscript may be organized into numbered sections and subsections. Mathematical notation should be introduced clearly and consistently.

1.1. Subsection title

This is a subsection devoted to the main results got in the paper and to the comparison with the current literature.

2. Preliminaries

This section may contain definitions, notation and auxiliary results used throughout the paper.

Definition 2.1. Let X be a nonempty set. A function $d : X \times X \rightarrow [0, +\infty)$ is called a metric on X if it satisfies the usual positivity, symmetry and triangle inequality properties.

¹Corresponding author.

Lemma 2.2. *Let $a, b \in \mathbb{R}$. Then*

$$(a + b)^2 = a^2 + 2ab + b^2. \quad (2.1)$$

Proof. The assertion follows by direct expansion. $\square$

3. Main results

The main results of the paper should be stated precisely. The following theorem is only a model of the suggested formatting.

Theorem 3.1. *Let $n \in \mathbb{N}$ and let A be a nonempty subset of $\mathbb{R}^n$. Under suitable assumptions, the desired conclusion holds.*

Proof. Provide the proof here. Displayed equations are numbered automatically when written in an `equation` environment:

$$\int_a^b f(x) dx = F(b) - F(a). \quad (3.1)$$

This completes the proof. $\square$

Corollary 3.2. *Under the hypotheses of the previous theorem, a corresponding special case follows, that is*

$$\int_a^a f(x) dx = 0. \quad (3.2)$$

Proposition 3.3. *Under the hypotheses of the previous theorem, a corresponding special case follows.*

4. Examples, remarks, listings, figures, tables, verbatim, quotes

This section may include examples, remarks, figures, tables, verbatim, quotes, applications, computational remarks or additional consequences.

Example 4.1. Let $f(x) = x^2$. Then $f'(x) = 2x$ and $f''(x) = 2$.

Remark 4.2. This is a remark.

4.1. Listings

How to insert listings. This is a simple list:

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4.2. Figures

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Figure 1. Caption of the figure.

4.3. Tables

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Table 1. Title of your table

4.4. Verbatim and quotes

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it is written here.

How to insert quotes:

The text preceding the quote introduces the topic.

“This is the actual quote from the book. LaTeX will automatically indent it on both sides to make it stand out.”[?, p. 15]

The text resumes normally without indentation unless you leave a blank line after the environment.

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Conflict of interest

The authors declare that there are no conflicts of interest.

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- [2] A. Author, B. Author, Title of the article, *Journal Name*, preprint. FOR PREPRINT
- [3] A. Author, B. Author, Title of the article, in press on *Journal Name*, doi. FOR ACCEPTED ARTICLE
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