

A SAMPLE PAPER TO BE SUBMITTED TO THE JOURNAL *SCIENTIFIC WORKS – MATHEMATICS*

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ABSTRACT. A template for articles in the journal *Scientific Works – Mathematics* in the `amsart` style. Using `pdflatex` is strongly preferred.

1. INTRODUCTION

This file may be used as a template when submitting your paper to the journal *Scientific Works – Mathematics*. While the format does not exactly match the final printed version, it closely approximates it.

2. THEOREMS ETC.

Statements of theorems, propositions, and similar results are set in italics. In definitions, only the term being defined is emphasized. Remarks and examples are presented in roman type.

Definition 2.1. A system S is said to be *self-extensional* if $S \in B$.

Problem 2.2. Is $A + B = C$ true?

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Theorem 2.3 (Identity Principle, see also [2, Theorem 5]). *If $A = B$, then the following conditions are equivalent:*

- (i) *first item,*
- (ii) *second item,*
- (iii) *third item.*

Proof. We only prove (i) $\Rightarrow$ (ii). Observe that

$$\begin{aligned} \left(\tfrac{1}{2}(\mathcal{F}^3\mathbb{S}^b\mathbf{G}_1 + \text{length } \mathcal{F}^{a+i}\mathbb{S}^2\mathbf{G}_4)\right)^2 &= \binom{a+b}{c-d} \\ &\quad + \left(\prod_{i=1}^n A_i\right)^2 + \left(\frac{u}{v}\right)^n \\ &\stackrel{\alpha}{=} \begin{cases} \sqrt[3]{2/\sin x} & \text{if } x \in (0, \pi), \\ 0 & \text{otherwise.} \end{cases} \end{aligned} \tag{2.1}$$

Now apply induction on n to (2.1). □

Remark. Theorem 2.3 was independently proved in [3].

Main Theorem 2.4. *Here comes the statement of a numbered theorem with a fancy name.*

Note that formulas should be right-numbered. The `eqnarray` construction leads to well-known mistakes and should be avoided.

Do not leave “overflows” in formulas; if the formula is too wide, break it yourself into lines or, e.g., shorten it by introducing some symbols.

Do not re-invent $\text{\LaTeX}$; before using your own construction or creating a new symbol, look up Grätzer [1]—most probably, your intended construction or symbol is already there.

Add small spaces `\,`, only exceptionally, e.g. before differentials.

3. FIGURES

If you are including figures created outside $\text{\LaTeX}$, they should be prepared as pdf, jpg or eps files. All figures will be printed black and white; the colors will appear only in the online version. If your original figures are coloured, check their black-and-white printouts; you may wish to change (some of) the colours, or use shades of grey, to make some distinctions more visible.

Avoid very thin lines, and check whether all fonts used are embedded.

Note that when figures are scaled, the lettering is scaled accordingly; therefore, the use of very small text should be avoided.

FIGURE 3.1. A figure caption

Acknowledgments. Place all thanks and grant acknowledgements here.

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ЗАГЛАВИЕ НА БЪЛГАРСКИ ЕЗИК

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Резюме. Кратко описание на български език.