A catchy title: Subtitles are allowed but not always necessary

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Abstract. While the title should grab the reader's attention, the abstract text should inform the reader about what they can find herein. Be brief but complete. Accepted articles will also need to provide the editors with key words/phrases and AMS (MOS) subject classifications, but these are not included in the abstract text.

1   Introduction

That is the probably most popular title for Section 1. You can also create subsections and subsubsections. Be sure to use the `\emph{...}` command when providing definitions of important terms. You can also use any of the provided environments for definitions, remarks, theorems, corollaries, etc.:

- definition-style enviornments: `construction`, `definition`, `remark`, `example`, `exercise`, `observation`, `problem`, `conjecture`
- theorem-style environments: `theorem`, `lemma`, `corollary`, `question`, `claim`, `fact`, `proposition`

Each of the above environments supports a starred variant to suppress the numbering—which is usually not preferred.

Definition 1.1. The *pagination* of the document is the page numbers used in the issue when published.

Fact 1.2. *Let p be the number of pages in your document. If the first page of your document is assigned page number q, then the last page of your document's pagination is $p + q - 1$.*

Don't forget that numbers can be suppressed, but we suggest you use this sparingly.

Remark. If you have read this far, you might as well read to the end.

Question. *How much effort will the journal editors need to put into each accepted manuscript to get them publish ready?*

There is also a proof environment that should be employed where appropriate.

Theorem 1.3. *The set of prime numbers is infinite.*

Proof. Let us start by assuming the contradiction. That is, let $p_1, p_2, \ldots, p_n$ be the (finite) set of all prime numbers and let $N = \prod_{i=1}^{n} p_i$. Note that $N + 1$ cannot be prime because it exceeds all primes on our exhaustive list $p_1, p_2, \ldots, p_n$. This means that $N + 1$ is divisible by a prime number q, with $1 < q < N + 1$. However, q also divides N, the product of all primes. Hence, $q \mid (N + 1) - (N) = 1$, which is impossible. $\square$

Don't forget to put `\label{...}` commands inside any of the document parts you want to reference like Theorem 1.3 here. It is also worth mentioning that the following packages are called by this document class: `amsmath`, `amsthm`, `amssymb`, `thmtools`, `mathtools`. This means that you can naturally do things like

$$f(x) :\!-\ (x - 2)! \qquad\qquad (fg)(x) = \frac{(x + 1)!}{x}$$
$$g(x) :\!-\ x^2 - 1 \qquad\qquad (f \circ g)(x) = (x^2 - 3)!$$

Acknowledgments

It is a good idea to recognize any helpful people or organizations that supported the authors in getting their work to and over the finish line. Note how this section got unnumbered.

The environment `{thebibliography}` has a mandatory argument. The value here needs to represent the (figure) width of the last numbered reference on your list. For those interested in using BIBTEX, see the *BICA*

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At the very end of the document is where each author's contact information should be given. Instruction for how to provide this information is given within comments of the source code for this template file.

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