

Notes on Number Theory and Discrete Mathematics

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# Your paper title here in Sentence case, centered and bold

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# 1 Introduction

Body text and section titles are in sentence case, font Times New Roman, 12 pt, justified. First paragraph starts with no indentation, while all the rest paragraphs start with indentation.

The line spacing is set at 1.15. No limitation of the number of pages per paper. References can be rendered separately (see [2]) or grouped thanks to the `\LaTeX` package “cite” as in [1, 3–5]. In section “References” the references have to be sorted alphanumerically.

Further to clarify when a `\LaTeX` command(s) is visualized we denote this by surrounding it in a box, i.e. `commands`.

## 2 Section title

As already mentioned, the first paragraph starts with no indentation. You may use *italic* to emphasize on certain words `\textit{words}` or `\emph{words}` when a *specific term* is being introduced in the paper for the first time.

The second paragraph starts with indentation. Complex formulas are usually placed on a separate line, centered, using:

- `$$equation content $$`, or preferably `\[equation content \]` for unnumbered equations or
- `\begin{equation}equation content \end{equation}` for numbered.

Enumerated formulas can be easily arranged, as shown on the example below:

$$\sum_{i=1}^n \mu_i > \sum_{i=1}^n \nu_i, \tag{1}$$

where the second paragraph continues without indentation in case that the sentence before the formula has not finished.

You may create simple one-line formulas, too, but please format them properly with “\$”: e.g. *italic* for the Latin and Greek variables, normal font for digits, mathematical and punctuation symbols, etc.

For multiple-lined equations that need to be aligned with respect to a specific symbol, please use:

- `\begin{equation}\begin{aligned}equation content \end{aligned}\end{equation}` if all the expressions should have a single number

$$\begin{aligned} x^2 + y^2 &= 2xy \\ \Gamma(n) \binom{n}{m} &= (n+1)! \binom{n}{m} \\ \zeta(s) &= \sum_{n=1}^{\infty} n^{-s} \end{aligned} \tag{2}$$

Refer to the equation in the text as (2).

- `\begin{align}` equation content `\end{align}`, if each of the equations has to be numbered separately and has to be aligned by a certain symbol. Use the command `\allowdisplaybreaks` before the environment to allow the formulas to automatically break between pages. See the example below:

$$x + y = z \tag{3}$$

$$x - y = q \tag{4}$$

$$u_{xx} + u_{yy} = 0 \tag{5}$$

One can call the references in the text as usual (3) and (4).

- For unnumbered centered formulas, use `$$` or `\begin{align*} \dots \end{align*}`, e.g.

$$\Gamma(n) \binom{n}{m} = (n+1)! \binom{n}{m}$$

## 2.1 First subsection

In this subsection, we have text and a table (see Table 1). We always have the reference to the table in the text preceding the rendered table. The table itself is centered with respect of page margins, with bold headers, its contents being arranged per authors' decision.

Table 1. Table caption

Column 1	Column 2 with a formula $x + y$ using <code>\bm</code>	Column 3
Cell 1.1	Cell 1.2	Cell 1.3
Cell 2.1	Cell 2.2	Cell 2.3
Cell 3.1	Cell 3.2	Cell 3.3

Tables have to be referred to within the text and placed after the first reference, preferably within the same section (subsection) of the text.

The text of the table caption is placed below the table. Tables shall ideally fit into one page only, but if longer, the header row shall repeat at the top of each page. Rows shall not break across pages.

## 2.2 Second subsection

In this subsection, we have text and a figure (Figure 1). The figure shall not exceed the page margins. The figure shall have wrapping style in line with text and shall be centered.

Figures have to be referred to within the text and placed after the first reference, preferably within the same section (subsection) of the text. For example, see Figure 1. The figure captions are consequently numbered and placed below the figures.

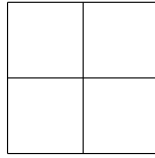


Figure 1. The figure caption is 12 pt, centered

**Theorem 2.1.** *Theorems are consequently numbered.*

*Proof.* The end of each proof is marked with the right aligned symbol “qedhere”. □

**Corollary 2.1.** *Corollaries by default use their own counter.*

**Lemma 2.1.** *Lemmas by default use their own counter.*

**Theorem 2.2.** *Theorems are consequently numbered.*

Therefore, when citing in the text use `Theorem~\ref{theorem's label}`. The tilde sign is an unbreakable space and ensures that the referred label will be kept together with the preceding word. Please make sure to use unique labels. For example, see Theorem 2.1.

### 3 Conclusion

We recommend adding a short conclusion to the paper that summarizes the essential results achieved and proposes for directions of research.

### Acknowledgements

Optional place for funding acknowledgements and/or expression of gratitude. After peer review of the manuscript, we encourage the authors to express here gratitude to reviewers as a token of appreciation for their volunteer efforts.

### References

- [1] Familyname1, N1., Familyname2, N2., & Familyname3, N3. (1970). Title of a journal publication in sentence case. *Journal Name in Italic Title Case*, 1(2), 33–45.
- [2] Familyname1, N1., Familyname2, N2., & Familyname3, N3. (1970). *Journal Name in Italic Title Case*, 1(2), Article 0034567.
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- [4] Familyname1, N1. (1990). *Title of a Monograph in Italic Title Case*. Publishing House, Town.
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