



[original idea]

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# Ingenious Mathematical Insights

Open Mathematics Collaboration\*†

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## Abstract

The purpose of this paper is to introduce a new type of microarticle, considered for publishing in the Open Journal of Mathematics and Physics (OJMP), dubbed “Mathematical Insight.”

keywords: ojmp, open science, microarticle, mathematical insight

## Introduction

1. Mathematical proofs are often accompanied by an ingenious insight, in which its origin is not properly mentioned or duly explained.
2. As it is well known by the mathematicians’ communities, it is not the sole purpose of a mathematical proof to explain how did the insight originate.
3. As we observe a lack of explanations in this sense in the literature, we propose the publication of articles providing them in this scientific journal.

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# Mathematical Proofs

4. A mathematical proof is designed to have the minimum necessary, such that a well-educated mathematician can understand all the steps involved within the proof.
5. Proofs are composed of the following items:
  - (i) The method used in the proof, such as *mathematical induction*, *proof by contradiction*, etc.;
  - (ii) **An ingenious insight**;
  - (iii) Calculations by logical inferences;
  - (iv) The conclusion, usually followed by the symbol  $\square$ .

## The origin of a mathematical insight

6. The purpose of having a *Mathematical Insight* microarticle-type is to discuss the origins of ingenious mathematical insights (5) [1–3].

## Final Remarks

7. It is quite useful for future generations of mathematicians to access scientific forums with the discussions of *mathematical ingenious insights* in order to provide them the intellectual means necessary in the creation of innovative solutions.
8. An example of (6) will be presented in the OJMP soon.

## Open Invitation

*Review, add content, and co-author* this article. *Join* the **Open Mathematics Collaboration**. Send your contribution to [mplobo@uft.edu.br](mailto:mplobo@uft.edu.br).

# Ethical conduct of research

This original work was pre-registered under the OSF Preprints [4], please cite it accordingly [5]. This will ensure that researches are conducted with integrity and intellectual honesty at all times and by all means.

## References

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## The Open Mathematics Collaboration

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