

# Review of: "Symmetric Key generation And Tree Construction in Cryptosystem based on Pythagorean and Reciprocal Pythagorean Triples"

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Potential competing interests: No potential competing interests to declare.

In this manuscript, a key generation and tree construction in a cryptosystem based on Pythagorean triples is proposed. Some algorithms regarding the generation of Pythagorean triples have been discussed in this article. The approach is interesting, but I will suggest a major revision due to the following concerns:

1. The article is not in a proper format. The introduction is normally based on the related work which is currently absent. Similarly, the section of preliminaries has not been covered.
2. There is no motivation in the article.
3. In most parts, methods for the generation of Pythagorean triples (Reciprocal Pythagorean triples) are discussed along with their codes, whereas the main work is not sufficient and not properly explained. The purpose is that the article needs more work, and the proposed work needs to be explained with pseudo codes and explicit examples.
4. In conclusion, it is claimed that the proposed work is based on a novel mechanism of Pythagorean triples, but why the mechanism is novel is not justified. Furthermore, the question arises here as to whether the novelty in the mechanism of the generation of Pythagorean triples implies novelty in the key generation method. Apart from this, the proposed work is neither analyzed nor compared with other related works to show the advantage of the presented method.
5. Lastly, there are a lot of typos and grammatical mistakes in the article. The style of references is not uniform."