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| Book Name: | [**Mathematics and Computer Science: Research Updates**](https://www.bookpi.org/bookstore/product/mathematics-and-computer-science-research-updates-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6081** |
| Title of the Manuscript:  | **Certain Addition Formulae in the form of Gamma Function** |
| Type of the Article | **Book Chapter** |

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| PART 1: Comments |
| .  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript deals with the development of novel summation identities involving the generalized hypergeometric function and the Gamma function. These new identities contribute to the theory of special functions and offer potential applications in mathematical physics, numerical analysis, and the analytical treatment of differential equations. The derived results can be useful in simplifying complex symbolic expressions and provide closed-form representations that are of interest in computational mathematics** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes, the title is generally suitable. However, it can be slightly improved for clarity.****Suggested title: "New Summation Identities Involving Hypergeometric and Gamma Functions** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract is not well written and contains serious grammatical errors and improper use of vocabulary. Words such as “bombarded”, “conglutination”, and “diagnosticate” are misused and reduce clarity.****Suggested revision:****> This chapter develops new addition and summation formulae involving generalized hypergeometric and Gamma functions. These identities provide closed-form representations useful in the simplification of special functions. The results are novel and add to the existing literature in special function theory, with potential applications in solving complex mathematical problems and differential equations.**  |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Partially. While the manuscript includes several references, most are outdated and heavily rely on the author’s previous work. It is recommended to include more recent references (from 2015 onwards) from peer-reviewed journals such as:****Journal of Mathematical Analysis and Applications****Advances in Difference Equations****Applied Mathematics and Computation** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** |  |  |
| Is the language/English quality of the article suitable for scholarly communications? | No. The language needs substantial revision. There are numerous grammatical and syntactic errors, incorrect vocabulary usage, and awkward phrasing that hinder the readability of the paper. The manuscript requires professional proofreading or language editing. |  |
| Optional/General comments | The manuscript lacks a clear motivation and explanation of the significance of the identities.Examples or numerical demonstrations should be included to illustrate the practical usefulness of the formulae.The derivations are presented with heavy symbolic manipulation but without textual explanation, which limits accessibility.Mathematical expressions need to be better formatted, labeled, and referenced.The introduction should include more context on applications and why these formulae matter.The manuscript presents mathematically valuable results, but the clarity, language quality, and structure must be significantly improved. More detailed derivations, practical examples, and a thorough proofreading of the text are necessary to enhance the manuscript’s scholarly value |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in detail)* |  |

**Reviewer details:**

**Ameer Dehyauldeen A. Al-Zamili , Iraq**