

Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_85482
Title of the Manuscript:	Equal and odd values of Generalized Euler Functions
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljamcs.com/index.php/JAMCS/editorial-policy>)

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>1) There are different notations of the Euler function. It is preferable to use the notation $\phi(n)$ throughout the manuscript.</p> <p>2) What does the author mean by canonical form of n in the introductory section? The written formula is the result of the fundamental theorem of arithmetic.</p> <p>3) Is the result of Jud McGrane true for Euler function or generalized Euler function? We can not have two different integers with the same Euler function values (where $e=1$ in the case of generalized Euler function)!</p> <p>4) <u>Remark:</u> we can summarize the work in the form of proofs of four theorems related to the odd values of the generalized Euler function. So the author's contribution still low. However, it's possible to add a new section to study the case of $\phi_e(n) = \phi_e(n+1)$ which is mentioned in the expectation section.</p>	<p>Thanks.1)We have used the notation $\phi(n)$ throughout the manuscript.</p> <p>2) "canonical form" changed to "standard factorization".</p> <p>3) We can't be sure the result of Jud McGrane true or false for Euler function or generalized Euler function, but we sure the result about the number of odd values of generalized Euler function for successive integers is finite. We have the same integers with the same Euler function values (where $e=1$ in the case of generalized Euler function), so $\phi_e(n)$ is called generalized Euler function.</p> <p>4)Change "Expectation" to "Conclusion", and we add the result of $\phi_e(n) = \phi_e(n+1)$ in the conclusion.</p>
Minor REVISION comments	<p>1) The word (Equal) in the manuscript title is not accurate as the proposed paper studies a special case of equal values of $\phi_e(n)$: $\phi_e(n) = \phi_e(n+1) \rightarrow$ for successive integers. Also we say Euler generalized function (Not functions)</p> <p>2) In the expectations section, the word "solutions" should be replaced with "values", because the paper studied the odd values of generalized Euler functions not the solutions !</p> <p>3)The Diophantine equation was mentioned as a key word but it is not called in the article.</p>	<p>Thanks.1)We have used the notation $\phi(n)$ throughout the manuscript.</p> <p>2) "canonical form" changed to "standard factorization".</p> <p>3)We deleted the key word "Diophantine equation".</p>
Optional/General comments	<p>1) In the seconde page, add the page numbers of the cited book "Unsolved Problems in Number Theory". It's not necessary to mention the title of the book as it's already done in the references section.</p>	<p>Thanks, we have deleted the title of the book, and added the page numbers of the book.</p>

[Review Form 1.6](#)

PART 2:

	Reviewer’s comment	Author’s comment (if agreed with 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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	