

Review Form 1.7

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_104821
Title of the Manuscript:	SOME NEW OPTIMAL BOUNDS FOR WALLIS RATIO
Type of the Article	Original Research 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.journalarjom.com/index.php/ARJOM/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)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</p>	<p>In this paper, the authors prove the general inequalities for Wallis ratio for arbitrary number of terms in the asymptotic expansion. They show that the coefficients in the asymptotic expansion are the best possible. In order to improve this paper, the following issues shall be taken into account:</p> <ol style="list-style-type: none"> The authors say that w_n has had many important applications in mathematics such as in combinatorics and statistics. Please give an example to illustrate this application. The motivation of this paper shall be improved. The Conclusion section shall be given. The format of the references shall be united. The following works are concerned with the gamma functions. Please cite the following references to strengthen the recent research progress of this area. <p>[1] Exploring bifurcation in a fractional-order predator-prey system with mixed delays, Journal of Applied Analysis and Computation 13(3)(2023) 1119-1136.</p> <p>[2] Insight into Hopf bifurcation and control methods in fractional order BAM neural networks incorporating symmetric structure and delay, Cognitive Computation (2023)</p> <p>[3] Exploration on dynamics in a discrete predator-prey competitive model involving time delays and feedback controls, Journal of Biological Dynamics 17(1)(2023) 2220349.</p> <p>[4] Further insight into bifurcation and hybrid control tactics of a chlorine dioxide-iodine-malonic acid chemical reaction model incorporating delays, MATCH Communications in Mathematical and in Computer Chemistry 89(3)(2023) 529-566.</p> <p>[5] Extended hybrid controller design of bifurcation in a delayed chemostat model, MATCH Communications in Mathematical and in Computer Chemistry 90(3) (2023) 609-648.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>		
<p>Optional/General comments</p>		

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PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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