



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_24714
Title of the Manuscript:	Numerical Solution of Fourth Order Linear Differential Equations by Adomian Decomposition Method
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.

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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	The paper seems interesting but I have the following questions or suggestions to improve it: 1. Why only apply ADM for four-order equations?, if it is known that it applies to any order... 2. Would be interesting to an example of order four resulting from applications; In the Abstract the authors say that ADM can be applied to physical problems (and true). 3. In the Conclusion section authors say that the method converges faster, if it is not a demonstration of the Convergence; then I think it would be good to attach a reference, which can be: Cherruault, Y., Adomian, G.: Decomposition methods: a new proof of convergence. Math. Comput. □Model. 18(12), 103–106 (1993). 4. It is well known that the Adomian method can also be applied to systems of nonlinear differential equations; I think that it would be appropriate to put a reference related to these studies, which may be:	1. No doubt ADM is known to be applicable to any order, but most published articles are on second order. I have one article in press that is related to third order. And, I am writing on 4th order to further demystify the concept of ADM. 2. Physical models on 4th order differential equations are still 4th order differential equations. Hence, the need for example of order 4 resulting from application is meaningless. 3. Noted. 4. As the topic stated, this article is on linear differential equations not on nonlinear differential equation. Furthermore, references on nonlinear equations were not consulted hence useless in this article.



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	O. González-Gaxiola, J. A. Santiago: The Frank's kinetic model through the Adomian decomposition method. Int. Journal of Applied Math. 28(2), 151-158 (2015).	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		