

Review Form 3

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_123962
Title of the Manuscript:	Kth-DIMESIONAL DIFFERENTIAL TRANSFORM METHOD FOR THE GENERAL SOLUTION OF INITIAL VALUE PROBLEMS OF ORDINARY DIFFERENTIAL EQUATIONS
Type of the Article	

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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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	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. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	First \Second order differential equation with constant coefficients(initial conditions) has been solved using the differential Transform Method. As per author, the calculation has been done using matlab programming.	
Is the title of the article suitable? (If not please suggest an alternative title)	DIFFERENTIAL TRANSFORM METHOD FOR THE GENERAL SOLUTION OF INITIAL VALUE PROBLEMS OF ORDINARY DIFFERENTIAL EQUATIONS	
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.	Many researchers have contributed in the Differential Transform Method and had solved many types of differential equation and partial differential equations. So it can be includes in Abstract.	
Are subsections and structure of the manuscript appropriate?	1.Give the number to table. 2.Cite the reference in the article.	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	As per result analysis (Tables), the error between exact solution and numerical solution is very less.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. :	Explain the necessity of following reference in research article. Ref.4 Kayode S. J. and Abejide K. S. (2023) Integration of Stochastic Black-Scholes Model With Gauss-Levy Jump Using Euler-Maruyama Method. Scientific Press International Limited (Theoretical Mathematics & Applications) vol. 13, No.1, 2023, 1-12, Doi:10.47260/tma/1311	
Minor REVISION comments Is the language/English quality of the article suitable for scholarly communications?	Minor Revision after some clarification.	
Optional/General comments	Q-1 .What is the difference between kth-order differential transform method, k th -dimesional differential transform method and dimesional differential transform method ? Q-2 . As per conclusion "The accuracy of the obtained solution can be improved by taking more terms in the solution." So can you able to discuss convergence of the method.	

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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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