

### Review Form 3

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|--------------------------|--|
| Journal Name:            | <a href="#">Asian Journal of Advanced Research and Reports</a>                                       |
| Manuscript Number:       | Ms_AJARR_128123  |
| Title of the Manuscript: | Mathematical Models in Economics: Applications of Sequences, Derivatives, and Differential Equations |
| Type of the Article      |  |

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

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#### PART 1: Comments

|  | Reviewer's comment  | Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
|--|---|---|
| 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. | The article manages to integrate mathematics and economics in an accessible and useful way. Numerical examples from sections such as sequences and derivatives are explained in detail, which makes the material suitable for both students and researchers. The article includes a variety of mathematical concepts such as marginal derivatives, cost functions, models of economic growth and game theory.   |   |
| Is the title of the article suitable? (If not please suggest an alternative title)   | The title of the article is suitable.   |   |
| 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 title of the article is suitable.   |   |
| Is the manuscript scientifically, correct? Please write here.  | The article includes a variety of mathematical concepts such as marginal derivatives, cost functions, models of economic growth and game theory. The article is a solid contribution to the field of application of mathematics in economics, providing a good basis for understanding complex concepts. However, it can benefit from improvements in clarity, structure and diversity of examples. It is suitable for both students and researchers, but requires an average-advanced level of knowledge to be fully understood. |   |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.                              | References include well-known work in the field, giving credibility to research.  |   |
| Is the language/English quality of the article suitable for scholarly communications?  | Technical language is sometimes unclear, some passages, for example in the description of cost functions and differential equations, are too technical for readers who do not have advanced knowledge in mathematics or economics.  |   |
| <u>Optional/General</u> comments   | As for the section structure, some sections, such as game theory, are insufficiently developed compared to sections on derivatives or differential equations. The transition between concepts is sometimes abrupt, without clear transitions. I noted the absence of synthetic conclusions: There is no clear section that integrates all the observations and emphasizes the main contribution of the work.  |   |

#### 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> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> |  |

#### Reviewer Details:

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|----------------------------------|----------------------------------|
| Name:                            | Anamaria Popescu                 |
| Department, University & Country | University of Petroșani, Romania |