Review of: "New Computational Methods Using Seventh Derivative Type for the Solution of First Order Initial Value Problems"

Youssri Hassan Youssri[1]

1 Cairo University

Potential competing interests: No potential competing interests to declare.

Constructive Comments:

1. Abstract: Enhance by adding specific results to clarify contributions.

2. Simplify complex concepts for better understanding.

3. Provide more context on the importance and applications of stiff differential equations.

4. Smoothen transition between concepts for reader engagement.

5. Summarize specific contributions to existing knowledge.

6. Ensure relevance and currency of cited references.

7. Define technical terms for easier comprehension.

8. Improve flow by grouping similar methods for comparison.

9. Provide detailed explanation of techniques used.

10. Include equations for clarity in method derivation.

11. Clarify significance of choosing seventh derivative functions.

12. Analyze stability, convergence, and efficiency thoroughly.

13. Clearly present and interpret results with visual aids.

14. Describe method implementation process in detail.

15. Expand on practical applications with specific examples.

16. Summarize key findings and significance of methods.

17. Provide insights into limitations and future research areas.

18. Ensure concise alignment with research objectives.

19. Verify citation accuracy and consistency.

20. Review for logical flow and coherence; seek feedback for improvement.

I suggest revising the paper and submitting it to a numerical analysis-related journal.