

Review of: "Generalized N-metric Spaces"

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The concept of generalized N-metric spaces (gNms) is introduced in this paper, drawing inspiration from the path integral in quantum mechanics. The study seeks to expand conventional metric spaces by examining N -metrics, which are defined based on a new set of properties. These requirements encompass the characteristics of triangular inequalities and metric symmetry, providing a wider perspective for comprehending the spatial relationships among points within a set. Finally, some open questions are also proposed.

Key Questions for Further Study:

1. Can counterexamples be found for $N = 5$ to $N = 9$ to disprove their classification as generalized N-metric spaces?
2. What is the deeper mathematical significance behind $N = 4$ failing to meet the criteria, unlike other values of N ?
3. How does the structure of a generalized N -metric space vary with N ?