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Title: On φ -convexity

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In this paper, approximate convexity and approximate midconvexity properties, called φ -convexity and φ -midconvexity, of real valued function are investigated. Various characterizations of φ -convex and φ -midconvex functions are obtained. Furthermore, the relationship between φ -midconvexity and φ -convexity is established.

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