

New quantum boundaries for q-Simpson's type inequalities for co-ordinated convex functions

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Abstract

The aim of this work is to develop quantum estimates for q-Simpson type integral inequalities for co-ordinated convex functions by using the notion of newly defined q1q2-derivatives and integrals. For this, we establish a new identity including quantum integrals and quantum numbers via q1q2- differentiable functions. After that, with the help of this equality, we achieved the results we want. The outcomes raised in this paper are extensions and generalizations of the comparable results in the literature on Simpson's inequalities for co-ordinated convex functions.

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