APPROXIMATION BY MODIFIED q-GAMMA TYPE OPERATORS IN A POLYNOMIAL WEIGHTED SPACE

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Abstract

In this research article, we construct a q-analogue of the operators defined by Betus and Usta (Numer. Methods Partial Differential Eq. 1-12, (2020)) and study approximation properties in a polynomial weighted space. Further, we modify these operators to study the approximation properties of differentiable functions in the same space and show that the mofidied operators give a better rate of convergence.

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