

DURMEYER TYPE (p, q) -BASKAKOV OPERATORS PRESERVING LINEAR FUNCTIONS

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Abstract. The present paper deals with the construction of Baskakov Durrmeyer operators, which preserve the linear functions, in (p, q) -calculus. More precisely, using (p, q) -Gamma function we introduce genuine mixed type Baskakov Durrmeyer operators having Baskakov and Szász basis functions. After construction of the operators and calculations of their moments and central moments, rate of convergence of the operators by means of appropriate modulus of continuity, approximation behaviors for functions belong to Lipschitz class and weighted approximation are explored.

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