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SOME APPROXIMATION PROPERTIES OF A MODIFIED BERNSTEIN TYPE POLYNOMIAL

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Abstract

In the present paper we introduced a new kind of Bernstein type polynomials and study some approximation properties in terms of modulus of continuity. The main aim of the present paper, is to extend the result due to Bernstein [1], Lorentz [5] and Voronovskaja [6] for Lebesgue integrable functions in L_1 -norm by our polynomial, which is more generalized form.

Key Words : *Bernstein polynomials, Modulus of continuity, Lebesgue integrable functions, Weierstrass approximation theorem, Jensen's formula, L_1 -norm.*

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