DEFECTS PRESERVING APPROXIMATION BY BERNSTEIN POLYNOMIALS

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Abstract. In this paper we obtain some estimates concerning the preservation through the Bernstein polynomials of the so-called defect of linearity, defect of monotonicity and defect of convexity. In the case when these defects are equal to zero, we recapture some classical properties of the Bernstein polynomials, so that the properties obtained can be considered as generalizations of some classical results for Bernstein polynomials.

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