Mironenko, A. V.
On the estimate of the uniform deviation from the class of functions with bounded third derivative. (English. Russian original) [Zbl 1312.41038]

Summary: The problem of the uniform approximation of a continuous function on a closed interval by a class of functions with a uniformly bounded third derivative is considered. It is shown that the value of best approximation of a function by this class cannot be estimated linearly in terms of its third-order modulus of continuity. At the same time, such estimates exist for classes with bounded first or second derivatives.

MSC:
41A50 Best approximation, Chebyshev systems
41A28 Simultaneous approximation

Keywords:
uniform approximation; functions with bounded derivatives; smooth functions; modulus of continuity

Full Text: DOI

References:

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