CHARACTERISTICS OF BESOV-NIKOL’SKII CLASS OF FUNCTIONS

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Abstract. In this paper we consider functions from a Besov-Nikol’skii class. We give constructive characteristics of this class. We establish criteria for a function to be in this Besov-Nikol’skii class by means of conditions on its Fourier coefficients. We also discuss embedding theorems between some classes of functions.

Key words. Moduli of smoothness, Besov-Nikol’skii class, Best approximation, Fourier coefficients, Embedding theorems.

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