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ON BEHAVIOUR OF THE BEST APPROXIMATION AS A FUNCTION OF AN APPROXIMATION SET

Abstract

In this paper the best approximation $E(f,Q)$ of a continuous function $f(x,y)$ by sums $\varphi(x)+\psi(y)$ of continuous $\varphi(x)$ and $\psi(y)$ is considered as a function depending on an approximation set Q. The order relations between $E(f,Q)$ and $E(f,Q_1)+E(f,Q_2)$ are established for some sets $Q \subset R^2$, $Q_1 \subset Q$, $Q_2 \subset Q$, $Q_1 \cup \cup Q_2 = Q$ and some classes of functions from $C(Q)$.