

Cobzaş, S.

Antiproximinal sets in the Banach space $c(X)$. (English) [Zbl 0887.41029](#)

Commentat. Math. Univ. Carol. 38, No. 2, 247-253 (1997).

The author proves the existence of antiproximinal convex cell in the Banach space $c(X)$ of all X -valued convergence sequences, where X is a non-trivial Banach space (i.e. the existence a nonvoid bounded closed convex body V such that no point in $c(X) \setminus V$ has a nearest point in V). The case of the space $c_0(X)$ was considered in the author's earlier paper [*Mat. Zametki* 17, 449-457 (1975; [Zbl 0327.41030](#))].

Reviewer: [K.Najzar \(Praha\)](#)

MSC:

[41A65](#) Abstract approximation theory (approximation in normed linear spaces and other abstract spaces)

[41A50](#) Best approximation, Chebyshev systems

[46B99](#) Normed linear spaces and Banach spaces; Banach lattices

Cited in **1** Review
Cited in **2** Documents

Keywords:

antiproximinal sets; best approximation

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