

On Teaching Elements of Functional Analysis in the University Course of Mathematics

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Keywords: axioms of linear space; closed set; linear operator; linear functionality; metric space; normalized space; union of sets.

Abstract: A number of methodological recommendations on the presentation of elements of functional analysis to first-year students of technical universities are given; in particular, it is proposed to present the elements of functional analysis in parallel and in conjunction with the study of other sections of the general course of mathematics.