Cauchy sequences in b-metric spaces

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Abstract

In the present paper a criterion for Cauchy sequences in b-metric spaces is given. To show how it works, an analogon of the Meir-Keeler fixed point theorem is proved. Consequently, an extension of the well-known theorems of Czerwik and of Matkowski is presented.

Keywords: Dislocated b-metric, b-metric, Fixed point
2000 MSC: 54H25, 47H10, 54E18

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1. Sorry

The paper will be present here from the July 2027.