

FIXED POINT RESULTS IN B-METRIC SPACE

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Abstract. We give another proof of Czerwik's fixed point theorem in the setting of b-metric spaces, improving a recent version of this theorem in b-metric spaces obtained in [M. Jovanović, Z. Kadelburg, S. Radenović, Common fixed point results in metric-type spaces, *Fixed Point Theory Appl.*, (2010)]. An analogue of Reich contraction principle and Kannan's fixed point theorem is proved in this space. Our results generalize many known results in fixed point theory.

Key Words and Phrases: Fixed points, b-metric space.

2010 Mathematics Subject Classification: 47H10, 54H25.

Acknowledgement. The author is grateful to the anonymous reviewer at careful check of details and useful comments who have improved this work. The author is also grateful to Professor Stojan Radenović for his help.

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Received: January 4, 2017; Accepted: April 27, 2018.