COINCIDENCE POINTS AND COMMON FIXED POINTS OF EXPANSIVE MAPPINGS IN A_b-METRIC SPACES

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Abstract: In this study, we prove some fixed point theorems for expansive mappings on A_b-metric spaces. Finally, the example is presented to support the new theorem proved. Our results extend/generalize many pre-existing results in literature.

Keywords and Phrases: A_b-metric space, expansive mapping, fixed point.

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1. Introduction

Fixed point theory has great importance in science and mathematics. Since this area has been developed very fast over the past two decades due to huge applications in various fields such as nonlinear analysis, topology and engineering problems, it has attracted considerable attention from researchers. The study of expansive mappings is a very interesting research area in the fixed point theory. Wang et al. [37] proved some fixed point theorems for expansion mappings, which