

A NOTE ON A RATIONAL FORM CONTRACTIONS WITH DISCONTINUITIES AT FIXED POINTS

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Abstract. In this paper, we investigate one of the classical problems of the metric fixed point theory: Whether there is a contraction condition which does not force the mapping to be continuous at the fixed point. We propose a contraction conditions in rational form that has a unique fixed point but not necessarily continuous at the given fixed point.

Key Words and Phrases: Discontinuity, fixed point theorems, metric space.

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