

**BEST PROXIMITY POINT RESULTS FOR GENERALIZED MT -TYPE
RATIONAL CYCLIC CONTRACTIONS IN METRIC SPACES**

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ABSTRACT. We introduce the generalized \mathcal{MT} - KC and generalized \mathcal{MT} - CK rational cyclic conditions within a metric space framework by building upon the weak \mathcal{MT} - KC and weak \mathcal{MT} - CK rational cyclic conditions proposed by Chaipornjareansri [4]. Subsequently, we derive multiple existence and convergence results concerning the best proximity points of the pair (T, S) of mappings. Furthermore, we offer several comparative examples to bolster our findings.

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