

Some new types multivalued F -contractions on quasi metric spaces and their fixed points

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ABSTRACT.

In this paper we present two new results for the existence of fixed points of multivalued mappings with closed values on quasi metric space. First we introduce the multivalued F_d -contraction on quasi metric space (X, d) and give a fixed point result related to this concept. Then taking into account the Q -function on a quasi metric space, we establish a Q -function version of this concept as multivalued F_q -contraction and hence we present a fixed point result to see the effect of Q -function to existence of fixed point of multivalued mappings on quasi metric space.

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