

# CHAOTIC CONDITIONS ON COMPACT SPACES AND REDUNDANCY IN THE DEFINITION OF CHAOS

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## ABSTRACT

In this article, we show mutual relationship among the chaotic three conditions of the most widely utilized definition of chaos due to R. L. Devaney and in this case we consider compact subspaces of the real line. We also survey the articles by the mathematicians on redundancy in the definitions of chaos by R. L. Devaney and consolidate these definitions with corresponding examples.

**Keywords:** Redundancy, Compact, Relationship, Chaotic, Definition.