N_{nc} δ-OPEN SETS

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Abstract: A new strong forms of sets called N-neutrosophic crisp δ-open sets and N-neutrosophic crisp δ-closed sets in N-neutrosophic crisp topological space are introduced in this article. Also, discuss their properties and examples are related to N-neutrosophic crisp δ open sets along with their near sets in N-neutrosophic crisp topological spaces.

1. Introduction

The concepts of neutrosophy and neutrosophic set are the recent tools in a topological space. It was first introduced by Smarandache [5, 6] in the end of 20th century. In 2014, Salama, Smarandache and Kroumov [3] has provided the basic concept of neutrosophic crisp set in a topological space. After that Al-Omeri [1] also investigated some fundamental properties of neutrosophic crisp topological Spaces. Al-Hamido [2] explore the possibility of expanding the concept of neutrosophic crisp topological spaces into N-topology and investigate some of their basic properties in N-terms. In 1968, the idea of δ-interior and δ-closure operations was introduced by