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College of Education



New types of α -Continuous Mapping

A thesis

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By:

Hakim Ahmed Othman Ali Al-bdoie
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Supervisor:

Dr.Nadir G. Mansour

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Abstract

The present thesis is generally an elaboration of the implications resulted from the adoption of the definition of a α -continuous map as it appeared lately.

One has studied some of different formulas to an open set properties which also proved (reached) to an equivalent definition to (α -open and semi α -open) set and prove their equivalence with the presented definitions. However, it has been reached to many of the special properties of these two sets. Moreover, we have studied the relationship between all the formulas of an open set, which is presented in this thesis.

In the study one may consider the base to the different formulas to continuous mappings and α -continuous mappings. Besides, the relationship between the different formulas of (continuous and α -continuous) mappings as well as the converse relationship has been studied and explained with presenting many examples. Hence, reaching to find a relationship between the formulas of (continuous and α -continuous) at new condition, the gathering between two mappings is done on it.

In the present study many results have been presented and the special theories at formulas of almost continuous mappings (in the sense of single). Then we have reached to give an example that is not explaining the existence of a relationship between some formulas from it.

After studying so many of the special properties of these formulas there was one able to present another new formulas of α -continuous (semi α -continuous and faintly α -continuous) mappings.