Corrigendum to "On supra b-open sets and supra b-continuity on topological spaces" [EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, 3 (2)(2010), 295-302]

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Abstract

In (2010) Sayed and Noiri [1], introduced and investigated a class of sets and maps between topological spaces called supra b-open sets and supra b-continuous maps, respectively. In this note, we show that Proposition 1 is incorrect.

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1 Introduction

In (2010) Sayed and Noiri [1], introduced and investigated a class of sets and maps between topological spaces called supra b-open sets and supra b-continuous maps, respectively. In this note, we show that Proposition 1 of [1] is incorrect.

The authors in [1] stated without proof that:

The intersection of a supra α -open set and a supra b-open set is a supra b-open set.

This statement is erroneous. Cite a counterexample in point as follows:

Example 1 Let (X, μ) be a supra topological space, where $X = \{a, b, c\}$ and $\mu = \{X, \phi, \{a\}, \{a, b\}, \{b, c\}\}$. Here $\{a, c\}$ is a supra b-open set, and $\{b, c\}$ is a supra α -open, but their intersection $\{c\}$ is not supra b-open.

References

 O. R. Sayed and T. Noiri, On supra b-open sets and supra b-continuity on topological spaces, EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS 3 (2)(2010), 295-302.