

Erratum to “More on λ -closed sets in topological spaces” Revista Colombiana de Matemáticas 41 (2007) 2 355–369

Errata sobre “Más sobre conjuntos λ -cerrados en espacios topológicos” Revista Colombiana de Matemáticas 41 (2007) 2
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Since, from Lemma 2.1 of this article it follows that $\lambda Cl(x) = Cl(x) \cap Ker(x)$ for all $x \in X$. Therefore $x \in \lambda Cl(\{y\})$ if and only if $y \in \lambda Cl(\{x\})$. This means that every topological space is $\lambda-R_0$.

In [3], Ganster et al. have shown that the notions $\lambda-R_0$, $\lambda-T_0$, $\lambda-T_1$ and $\lambda-T_2$ are equivalent. Now if we combine these equivalences with facts from [1], then $\lambda-R_0 = \lambda-T_0 = \lambda-T_1 = \lambda-T_2 = \lambda-D_0 = \lambda-D_1 = \lambda-D_2$. These facts shows the following concerning section 3 of [2]:

- (1) Theorem 3.3 is correct but also the converse. Therefore the statements of examples 3.4, 3.5 and 3.6 are not correct.
- (2) Theorem 3.11 shows that $T_0 = \lambda-R_0 = \lambda-T_0 = \lambda-T_1 = \lambda-T_2 = \lambda-D_0 = \lambda-D_1 = \lambda-D_2$.
- (3) The Diagram in Remark 3.13 is partly correct since every item in the diagram is equivalent with each other. Part (2) and Example 3.15 are therefore not correct.

- (4) The notion λ -symmetric in Definition 13 is equivalent with λ - R_0 , λ - T_0 , λ - T_1 , λ - T_2 , λ - D_0 , λ - D_1 and λ - D_2 . This means that parts (ii) and (iii) in Theorem 3.21 and also Theorem 3.22 are not correct.

References

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- [3] GANSTER, M., JAFARI, S., AND STEINER, M. Some observations on λ -closed sets. Submitted.

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