

ABSTRACT

The main purpose of this thesis is to study BCI-algebras with reference to $\text{Map}(A, X)$, topological BCI-algebras and homomorphism in topological BCI-algebras. We will study B-algebras and Basic BCI-algebras. We will introduce the notion of γ -left weakly regular mappings where $\gamma \in \text{Hom}(X)$ and $f: X \rightarrow X$. In the end we will study topological BCI-algebras and product of topological BCI-algebras.