

ABSTRACT

A group G with topology τ on G can be turned topological group (G, τ) if multiplication mapping $G \times G \rightarrow G$ continuous such that inverse mapping is continuous. A semigroup S with topology τ on S can be turned topological semigroup (S, τ) if the multiplication S , as a mapping of $S \times S \rightarrow S$ is continuous. A group(semigroup) G can be turned into a topological group(semigroup) by providing it with the discrete topology.

Keywords : group, semigroup, topological semigroup, topological group, inverse mapping, discrete topology