

Additional Problems Assignment 11

1. Let (X, \mathcal{T}) and (Y, \mathcal{S}) be topological spaces with $A \subseteq X$. Let $f : X \rightarrow Y$ be a continuous $(\mathcal{T} - \mathcal{S})$ function. Show that $f|_A : A \rightarrow Y$ is $\mathcal{T}_A - \mathcal{S}$ continuous, where \mathcal{T}_A is the subset topology on A .