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 τ is a topology on X . This topology is called the countable complement topology. Lemma 3. The compact subspaces of X are exactly the finite subspaces. Proof. Suppose A is infinite. Let $B = \{b_1, b_2, \dots\}$ be a countable subset of A . Set $A_n = (X \setminus B) \cup \{b_1, \dots, b_n\}$. Note that $\{A_n\}$ is an open covering of A with no finite subcovering.

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Solution: Define $g: X \rightarrow \mathbb{R}$ where $g(x) = f(x)$ if $x \in R$ and $g(x) = 0$ if $x \in X \setminus R$. Since f and i_R are continuous, g is continuous by Theorems 18.2(e) and 21.5. Since X is connected for all three

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