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 τ_c 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

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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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35.3. Let X be a metrizable topological space. (i) \iff (ii): (We prove the contrapositive.) Let d be any metric on X and $\phi: X \rightarrow \mathbb{R}$ be an unbounded real-valued function on X . Then $d(x, y) = d(x, y) + |\phi(x) - \phi(y)|$ is an unbounded metric on X that induces the same topology as d since $B_d(x, r) \subseteq B_{d+\phi}(x, r)$.

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Section 13 Problem 13.1. Let X be a topological space; let A be a subset of X . Suppose that for each $x \in A$ there is an open set U containing x such that $U \cap A$ is compact. Show

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that A is open in X . Solution: Let C be the collection of open sets U where $x \in U$ for some $x \in A$. Suppose $U_0 = \bigcup C$. Since X is a topological space ...

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where $i: \mathbb{R} \rightarrow \mathbb{R}$ is the identity function. Since f and $i: \mathbb{R} \rightarrow \mathbb{R}$ are continuous, g is continuous by Theorems 18.2(e) and 21.5. Since X is connected for all three

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