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and examples that are worked out in the text. One must
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metrizable topological space. (i) \Rightarrow (ii): (We prove the contrapositive.) Let d be any metric on X and $f: X \rightarrow \mathbb{R}$ be an unbounded real-valued function on X . Then $d(x,y) + |f(x) - f(y)|$ is an unbounded metric on X that induces the same topology as d since $B_d \subset B_{d+f} \subset B_d$.

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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 $U \cap A$. Show that A is open in X . Solution: Let $\mathcal{C} = \{U \mid U \text{ is open and } U \cap A = \emptyset\}$. Since X is a topological space ...

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