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topology and the discrete topology. (b). Lemma 1. If  $(X, T)$  and  $(X, T_0)$  are compact Hausdorff spaces then either  $T$  and  $T_0$  are equal or not comparable. Proof. If  $(X, T)$  compact and  $T_0 \supset T$  then the identity map  $(X, T) \rightarrow (X, T_0)$  is a bijective continuous map, hence a homeomorphism, by theorem 26.6. This proves the result. Finally note that the set of topologies on the set  $X$  is partially ...

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The Hausdorff condition is necessary in Theorem 26.3. Consider the finite complement topology on  $\mathbb{R}$  (see Example 3 of Section 12) in which the open sets are all sets  $U$  for which  $X \setminus U$  is either finite or is all of  $X$ . So the only closed sets are the finite sets and  $\mathbb{R}$ .

## *Section 26. Compact Sets*

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Munkres - Topology - Chapter 2 Solutions 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  $U \cap A$ . Show that  $A$  is open in  $X$ . Solution: Let  $\mathcal{C}$  be the collection of open sets  $U$  where  $x \in U \cap A$  for some  $x \in A$ . Suppose  $U = \bigcup_{x \in A} U_x$ . Since  $X$  is a topological space,  $U$  is open in  $X$ . Clearly if  $x \in A$ , then  $x \in U$ , so ...

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### *Munkres - Topology - Chapter 2 Solutions*

Munkres - Topology - Chapter 3 Solutions Section 24 Problem 24.3. Solution: Define  $g: X \rightarrow \mathbb{R}$  where  $g(x) = f(x) \circ i_{\mathbb{R}}(x) = f(x) \cdot x$  where  $i_{\mathbb{R}}$  is the identity function. Since  $f$  and  $i_{\mathbb{R}}$  are continuous,  $g$  is continuous by Theorems 18.2(e) and 21.5. Since  $X$  is connected for all three possibilities given in this problem and  $\mathbb{R}$  is ordered, the intermediate-value theorem applies. For  $X = [0;1]$ , observe that  $g(0) = 0 \dots$

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