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Sections 12,13: Topological Spaces, Basis for a Topology. 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 containing  $x$  such that  $x \in U_x$ . Show that  $A$  is open in  $X$ . By assumption, for any  $x \in A$  there exists an open set containing  $x$  such that  $x \in U_x$ . Hence,  $A$  is a union of open sets which implies that  $A$  is open. 2. Consider the nine topologies on  $X$  indicated in Example 1.

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Ex. 26.2 (Morten Poulsen). (a). The result follows from the following lemma. Lemma 2. If the set  $X$  is equipped with the finite complement topology then every subspace of  $X$  is compact. Proof. Suppose  $A \subset X$  and let  $\mathcal{A}$  be an open covering of  $A$ . Then any set  $A_0 \in \mathcal{A}$  will cover all but a finite number of points.

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Chapter 2. Topological Spaces and Continuous Functions Section 12. Topological Spaces Note. Recall from your senior level analysis class that a set  $U$  of real numbers is defined to be open if for any  $u \in U$  there is  $\epsilon > 0$  such that  $(u-\epsilon, u+\epsilon) \subset U$ . The open

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sets of real numbers satisfy the following three properties: (1)  $\emptyset$  and  $\mathbb{R}$  are open.

### 12. Topological Spaces Chapter 2. Topological Spaces and

...

Munkres - Topology - Chapter 3 Solutions Section 24 Problem 24.3. Solution: Define  $g: X \rightarrow \mathbb{R}$  where  $g(x) = f(x)$  if  $R(x) = f(x)$  and  $g(x) = 0$  if  $R(x) \neq f(x)$ . Since  $f$  and  $i \circ R$  are continuous,  $g$  is continuous by Theorems 18.2(e) and 21.5. Since  $X$  is connected for all three possibilities given in this

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i.e.. 2 Let us enumerate the topologies by columns, i.e. we give numbers 1-3 for the ...

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