

### Munkres Topology Solutions Chapter 2

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#### Munkres Topology Solutions Chapter 2

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  $U \cap A$  is open in  $X$ . Show that  $A$  is open in  $X$ . Solution: Let  $\mathcal{C} = \{U \mid x \in U \cap A \text{ for some } x \in A\}$ . Suppose  $U_0 = \bigcup \mathcal{C} \cap A$ . Since  $X$  is a topological space,  $U_0$  is open in  $X$ . Clearly if  $x \in A$ , then  $x \in U_0$ .

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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  $U_x$  containing  $x$  such that  $U_x \cap A$  is open in  $A$ . By assumption, for any  $x \in A$  there exists an open set  $U_x$  containing  $x$  such that  $U_x \cap A$  is open in  $A$ . Hence,  $A$  is a union of open sets which implies that  $A$  is open. 2. Consider the nine topologies on  $\mathbb{R}$  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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topological space and  $A \subset X$ . The following are equivalent: (i)  $A \in \mathcal{T}$ . (ii)  $\forall x \in A \dots$  Selected Solutions to Munkres's Topology, 2nd Ed.

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thanks u saurav,,,i was searching for long time munkre topology solution finally i got it,,,,,

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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  $\varepsilon > 0$  such that  $(u-\varepsilon, u+\varepsilon) \subset U$ . The open 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  $R(x) = f(x)$  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 possibilities given in this

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