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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 $U \cap A = \{x\}$. Show that A is open in X . Solution: Let $\mathcal{C} = \{U \cap A \mid U \text{ open in } X, x \in U \cap A\}$ the collection of open sets U where $x \in U \cap A$ for some $x \in A$.

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This is question number 1 from section 70 (The Seifert-van Kampen Theorem) in Munkres. Assume the hypotheses of the Seifert-van Kampen Theorem. ... Browse other questions tagged proof-verification algebraic-topology homotopy-theory fundamental-groups or ask your own question.

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Chapter 1 Set Theory and Logic x1 Fundamental Concepts Exercise 1.1 Check the distributive laws for \cap and \cup and DeMorgan's laws. Solution: Suppose that A , B , and C are sets.

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Let C be a relation on a set A . If $A \cap A$, define the restriction of C to $A \cap A$ to be the relation $C \cap (A \cap A)$. Show that the restriction of an equivalence relation is an equivalence relation. Homework solutions, 3/2/14 - OU Math

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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

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$\bigcup A$. Show that A_i are open in X . Solution: Let C be the collection of open sets U where $x \in U$ for some $x \in A$. Suppose $U_0 = \bigcup_{C \in A} C$. 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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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 x where $i \in \mathbb{R}$ is the identity function. Since f and $i \in \mathbb{R}$ 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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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

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As Munkres states (see page 163), "From the beginnings of topology, it was clear that the closed interval $[a,b]$ of the real line had a certain property that was crucial. 26. Compact Sets 2 for proving such theorems as the maximum value theorem and the uniform conti-

Section 26. Compact Sets

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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 $U \subset A$. Show that A is open in X .

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Munkres §30 Ex. 30.3 (Morten Poulsen). Let X be second-countable and let A be an uncountable subset ... Let X be a compact metrizable space, and let d be a metric on X that induces the topology on X . For each $n \in \mathbb{Z}^+$ let A_n be an open covering of X with $1/n$ -balls. By compactness of X there ...
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