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the definitions,
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opportunity is the
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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

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that $U \supset A$. Show that A is open in X . Solution: Let $C \subset A$ the collection of open sets U where $x \in U$ 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

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Chapter 1 Set Theory

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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 $A \neq \emptyset$, define the restriction of C to $A \neq \emptyset$ to

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be the relation $C \setminus (A \cup A)$
0) Show that the
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13.1. Let X be a

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2. 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 $\mathcal{C} = \{U \mid U \text{ is an open set and } U \cap A \text{ is open in } X\}$. The collection of open sets U where $x \in U \cap A$ for some $x \in A$.

Suppose $U_0 = \bigcup_{U \in \mathcal{C}} U$. Since X is a topological space, U_0 is open in X . Clearly if $x \in A$, then $x \in U$

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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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Chapter 3 Solutions**

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}

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are open.

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12. Topological

Spaces Chapter 2.

**Topological Spaces
and ...**

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

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Section 26. Compact Sets

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

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Suppose that for each
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13.1. Let X be a

topological space; let

A be a subset of X .

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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 $\mathcal{C} = \{U_x \mid x \in A\}$ the collection of open sets U_x where $x \in U_x$ and $U_x \cap A = \{x\}$ for some $x \in A$.

Suppose $U \cap A = \{x\}$ Munkres -
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Munkres §30 Ex. 30.3
(Morten Poulsen). Let X
be second-countable

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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 ...
Solutions to exercises in Munkres
Author: Jesper ...

1st December 2004

Munkres 30

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An extensive preliminary chapter presents mathematical foundations for the main text. Subsequent chapters explore topological spaces, the Moore-Smith convergence, product and quotient spaces, embedding and metrization, and compact, uniform, and function spaces. ... use Munkres' Topology, which is one of the most perfectly written

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