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24.3. Solution: Define $g: X \rightarrow \mathbb{R}$
where $g(x) = f(x)$ if $x \in A$ and $g(x) = f(x)$
if $x \in B$ where $i: \mathbb{R} \rightarrow \mathbb{R}$ is the identity function.
Since $f|_A$ and $f|_B$ 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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can learn topology merely by
poring over the definitions,
theorems, and examples that are
worked out in the text. One must
work part of it out for oneself. To
provide that opportunity is the

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purpose of the exercises. James R. Munkres. (a) The topology is strictly finer than the standard topology on which it is compact and Hausdorff, therefore, it is not compact.

Section 27: Problem 3 Solution |
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Section 24: Problem 3 Solution.
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C is a topology on X . This topology is called the countable complement topology. Lemma 3. The compact subspaces of X are exactly the finite subspaces. Proof. Suppose A is infinite. Let $B = \{b_1, b_2, \dots\}$ be a countable subset of A . Set $A_n = (X - B) \cup \{b_1, \dots, b_n\}$. Note that $\{A_n\}$ is an open covering of A with no finite subcovering.

1st December 2004 Munkres 26
1st December 2004. Munkres §35.
Ex. 35.3. Let X be a metrizable topological space. (i) \iff (ii): (We prove the contrapositive.) Let d be any metric on X and $\phi: X \rightarrow \mathbb{R}$ be an unbounded real-valued function on X . Then $d(x, y) = d(x, y) + |\phi(x) - \phi(y)|$ is an

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unbounded metric on X that induces the same topology as d since $B. d.$

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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 $U \cap A$.
Show that A is open in X . Solution:
Let $C \subseteq A$ the collection of open sets
 U where $x \in U \cap A$ for some $x \in A$.
Suppose $U \cap A = \bigcup_{U \in C} U \cap A$. Since
 X is a topological space ...

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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)

Since f and $i \circ R$ are continuous, g is continuous by Theorems 18.2(e)

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Chapter 5
and 21.5. Since X is connected for all three

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