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24.3. Solution: Define $g: X \rightarrow \mathbb{R}$
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and $g(x) = 0$ if $R(x) \neq f(x)$.
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
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work part of it out for oneself. To provide that opportunity is the purpose of the exercises. James R. Munkres. (a) The topology is strictly finer than the standard topology on which X is compact and Hausdorff, therefore, it is not compact.

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Functions; Section 3: Relations;
Section 4: The Integers and the
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 τ_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

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Chapter 3 $\{b_1, b_2, \dots\}$ 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.

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1st December 2004. Munkres §35.
Ex. 35.3. Let X be a metrizable topological space. (i) \square (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 $U \cap A$ is open in X . Show that A is open in X . Solution: Let $\mathcal{C} = \{U \cap A \mid U \text{ open in } X, x \in U \cap A \text{ for some } x \in A\}$. Suppose $U \cap A = \bigcup_{i \in I} U_i \cap A$. Since

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where $g(x) = f(x) \circ i$ and $R(x) = f(x)$
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Since f and i are continuous, g is
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