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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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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 $g(x) = 0$ if $R(x) \neq f(x)$. Since f and i_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 $\varepsilon > 0$ 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 ...

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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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 \mathcal{A}_n be an open covering of X with $1/n$ -balls. By compactness of X there ... Solutions to exercises in Munkres Author: Jesper ...

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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 books in ...

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