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Posts about Munkres written by cgauss1. 1. If τ_1 and τ_2 are two topologies on X , what does connectedness of X in one topology imply about connectedness in the other? If X is connected under τ_1 , it must necessarily be connected under τ_2 because a separation in τ_2 is also a separation in τ_1 . However, X can be connected under τ_1 but not under τ_2 . For example, if τ_1 is the discrete topology on X and τ_2 is the standard topology.

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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 $x \in A$ and $g(x) = 0$ if $x \in X \setminus A$. Since f and $i_{\mathbb{R}}$ 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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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_x containing x such that $U_x \cap A$ is open in 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 $x \in A$ for some $x \in A$. Suppose $U = \bigcup_{x \in A} U_x$.

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Munkres - Topology - Chapter 1 Solutions Section 3 Problem 3.2. Let \sim be a relation on a set A . If $A_0 \subseteq A$, define the restriction of \sim to A_0 to be the relation $\sim|_{A_0} = \{(a, b) \in \sim \mid a, b \in A_0\}$. Show that the restriction of an equivalence relation is an equivalence relation.

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Munkres - Topology - Chapter 4 Solutions Section 30 Problem 30.1. Solution: Part (a) Suppose X is a finite-countable T_1 space. Let $\{x_n\}$ be a one-point set in X , which must be closed. Let $B_n = \{x_n\} \cup \{x_m \mid m > n\}$ be a collection of neighborhoods of x_n such that every neighborhood of x_n contains at least one B_n . Clearly x_n is contained in every B_n . If $\{x_n\}$ is open, then some B_n

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WordPress.com Solutions to Exercises in James Munkres' Topology Here are my attempts at solutions to exercises in the first four chapters of James Munkres' Topology (2d).

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Assume that τ and τ' consider the identity function (from the finer topology to the coarser topology). It is clear that f is continuous, and since it is a map from a compact to a Hausdorff space, it is therefore a homeomorphism. Thus, the topologies are equal. 2a. Show that in the finite complement topology on X , every subspace is compact.

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Sections 14-16: The Order Topology, The Product Topology on $X \times Y$, The Subspace Topology. 1. Show that if Y is a subspace of X , and Z is a subset of Y , then the topology τ_Z inherits as a subspace of τ_Y is the same as the topology it inherits as a subspace of τ_X . If Z is open in Y relative to τ_Y , then there exists an open set U in X such that $Z = U \cap Y$. Also, because Y is open in X , there exists open V in X such that $Y = V \cap X$.

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