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Sections 12,13: Topological Spaces, Basis for a Topology. 1. Let be a topological space; let be a subset of .Suppose that for each there is an open set containing such that .Show that is open in .. By assumption, for any there exists an open set containing such that .Hence, Thus, is a union of open sets which implies that is open. 2. Consider the nine topologies on indicated in Example 1.

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Ex. 26.2 (Morten Poulsen). (a). The result follows from the following lemma. Lemma 2. If the set X is equipped with the finite complement topology then every subspace of X is compact. Proof. Suppose A ⊂ X and let A be an open covering of A. Then any set A 0 ∈ A will covering all but a finite number of points.

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thanks u saurav,,,i was searching for long time munkre topology solution finally i got it,,,,,

Munkres Topology Solutions – Saurav Agarwal

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 ∈ U there is ε > 0 such that (u−ε,u+ε) ⊂ U. The open sets of real numbers satisfy the following three properties: (1) ∅

and R are open.

12. Topological Spaces Chapter 2. Topological Spaces and ...

Munkres - Topology - Chapter 3 Solutions Section 24 Problem 24.3. Solution: De ne g: X!R where g(x) = f(x) i R(x) = f(x) xwhere i R is the identity function. Since fand i R are continuous, gis continuous by Theorems 18.2(e) and 21.5. Since Xis connected for all three possibilities given in this

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