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Analysis on Manifolds Solution of Exercise Problems

This is a solution manual of selected exercise problems from Analysis on manifolds, by James R Munkres [1] If you find any typos/errors, please email me at zypublic@hotmailcom Contents 1 Review of Linear Algebra 3 2 Matrix Inversion and Determinants 3 3 Review of Topology in \mathbb{R}^n 4 4 Compact Subspaces and Connected Subspace of \mathbb{R}^n 5 5 The

General Topology - Solutions to Problem Sheet 4

Further Complex Variable Theory & General Topology Solutions to Problem Sheet 4 Jos e A Canizo~ March 2013 Unless otherwise speci ed, the symbols X , Y and Z represent topological spaces in the following exercises Exercise 41 This exercise suggests a way to show that a quotient space is homeomorphic to some other space Consider an

Armstrong Topology Solutions

3 Armstrong does not do a good job describing what the topology on Y is A simple exercise shows that by letting O be open in Y whenever $q^{-1}O$ is open in X , we have a topology on Y ; call this τ_Y Further, Armstrong does not do an adequate job describing what a quotient map is: $q: X \rightarrow Y$ is a quotient map if it is onto, continuous with respect to τ_Y

TOPOLOGY: NOTES AND PROBLEMS

TOPOLOGY: NOTES AND PROBLEMS 3 Exercise 113 : (Co- nite Topology) We declare that a subset U of \mathbb{R} is open i either $U = \emptyset$; or $\mathbb{R} \setminus U$ is nite Show that \mathbb{R} with this \topology" is not Hausdor A subset U of a metric space X is closed if the complement $X \setminus U$ is open By a neighbourhood of a point, we mean an open set containing that point

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1st December 2004 Munkres §16 Ex 161 (Morten Poulsen) Let (X, τ) be a topological space, (Y, τ_Y) be a subspace and let $A \subset Y$ Let $\tau_Y|_A$ be the subspace topology on A as a subset of Y and let $\tau_X|_A$ be the subspace topology on A as a subset of X Since $U \in \tau_Y|_A \Leftrightarrow \exists U' \in \tau_Y : U = A \cap U' \Leftrightarrow \exists U'' \in \tau_X : U = A \cap U''$

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2 Ex 137 (Morten Poulsen) We know that τ_1 and τ_2 are bases for topologies on \mathbb{R} Further-more τ_3 is a topology on \mathbb{R} It is straightforward to check that the last two sets are bases for ...

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Problem Set #5: Selected Solutions

Problem Set #5: Selected Solutions M367K: Topology I Problems in Munkres Section 18 1 Suppose $f: \mathbb{R} \rightarrow \mathbb{R}$ is continuous in the τ -sense; we want to prove f is continuous in the open set sense Given $V \subset \mathbb{R}$ open we must show $f^{-1}(V) \subset \mathbb{R}$ is open So for each $x \in f^{-1}(V)$ we must find an open neighborhood U of x so that $U \subset f^{-1}(V)$, or equivalently $f(U) \subset V$ Now

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Problem Set #4: Selected Solutions

Problem Set #4: Selected Solutions M367K: Topology I Problems in Munkres Section 16.2 We can say that the induced topology from T_0 is finer than that induced from T , but it is not necessarily strictly finer. For example, if Y is a singleton then the two topologies are equal: there is a unique topology on a 1-element set. The problem is

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