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Connectedness is a topological property: any two homeomorphic topological spaces are either both connected, or both disconnected, and the same set can be connected in one topology but disconnected in another, for example, and  $\mathbb{R}$ . A space is connected iff the only sets that are both open and closed in it are the whole space and the empty set.

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### **Contents**

Ex. 23.2. Using induction and [1, Thm 23.3] we see that  $A(n) = A_1 \cup \dots \cup A_n$  is connected for all  $n \geq 1$ . Since the spaces  $A(n)$  have a point in common, namely any point of  $A_1$ , their union ...  
Solutions to exercises in Munkres Author: Jesper Michael Møller Created Date:

### **27th January 2005 Munkres 23 - web.math.ku.dk**

Sections 12,13: Topological Spaces, Basis for a Topology. 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 containing  $x$  such that  $A \cap U$  is open in  $A$ . Show that  $A$  is open in  $X$ . By assumption, for any  $x \in A$  there exists an open set containing  $x$  such that  $A \cap U$  is open in  $A$ . Hence,  $A$  is a union of open sets which implies that  $A$  is open. 2. Consider the nine topologies on indicated in Example 1.

### **Munkres: Chapter 2, Sections 12,13 | jesterpo**

Sections 14-16: The Order Topology, The Product Topology on  $\mathbb{R}^I$ , The Subspace Topology. 1. Show that if  $A$  is a subspace of  $X$ , and  $B$  is a subset of  $A$ , then the topology inherits as a subspace of  $X$  is the same as the topology it inherits as a subspace of  $A$ . If  $B$  is open in relative to  $A$ , then there exists an open set in  $X$  such that  $B = A \cap U$ . Also, because  $B$  is open in  $A$ , there exists open in  $A$  such that  $B = A \cap V$ .

### **Munkres: Chapter 2, Sections 14-16 | jesterpo**

1st December 2004 Munkres §16 Ex. 16.1 (Morten Poulsen). Let  $(X, \tau)$  be a topological space,  $(Y, \tau_Y)$  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  $U \in \tau_Y|_A \Leftrightarrow \exists V \in \tau_Y : U = A \cap V \Leftrightarrow \exists U \in \tau_X : U = A \cap U$

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