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DeMorgan's laws. Solution: Suppose that  $A$ ,  $B$ , and  $C$  are sets.

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Let  $C$  be a relation on a set  $A$ . If  $A \cap A$ , define the restriction of  $C$  to  $A \cap A$  to be the relation  $C \setminus (A \cap A \cap A)$ . Show that the restriction of an equivalence relation is an equivalence relation. Homework solutions, 3/2/14 - OU Math

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Munkres - Topology - Chapter 3 Solutions Section 24 Problem 24.3. Solution: Define  $g: X \rightarrow \mathbb{R}$  where  $g(x) = f(x) \cdot i(x)$  where  $i: \mathbb{R} \rightarrow \mathbb{R}$  is the identity function. Since  $f$  and  $i: \mathbb{R} \rightarrow \mathbb{R}$  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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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  $\epsilon > 0$  such that  $(u - \epsilon, u + \epsilon) \subset U$ . The open sets of real numbers satisfy the following three properties: (1)  $\emptyset$

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and  $R$  are open.

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

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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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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  $U$  containing  $x$  such that  $U \subset A$ . Show that  $A$  is open in  $X$ .

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Suppose that for each  $x \in A$  there is.... 1st December 2004.

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13.1. Let  $X$  be a topological space; let  $A$  be a subset of  $X$ . Suppose

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open sets  $U$  where  $x \in U \subset A$  for some  $x \in A$ . Suppose  $U$  Munkres -

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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  $A_n$  be an open

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covering of  $X$  with  $1/n$ -balls. By compactness of  $X$  there ...  
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