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Continuous Functions A continuous function (relative to the topologies on and ) is a function such that the preimage (the inverse image) of every open set (or, equivalently, every basis or subbasis element) of is open in .

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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  $U$  containing  $x$  such that  $U \cap A$ .

## **Munkres - Topology - Chapter 2 Solutions**

Munkres - Topology - Chapter  
3 Solutions Section 24

Problem 24.3. Solution: Define  $g: X \rightarrow \mathbb{R}$  where  $g(x) = f(x)$  if  $x \in R$  and  $g(x) = 0$  if  $x \notin R$ . 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

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possibilities given in this

### **Munkres - Topology - Chapter 3 Solutions**

The proof is very similar to Example 3 of §12. The empty set and are in the collection because their complements are and the empty set, the complement of any union of open sets is the intersection of the countable complements of these sets, so it is countable as well, finally, the complement of the finite intersection of open sets is the union of the countable complements, so it is countable.

### **Section 13: Problem 3**



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### **Solution | dbFin**

Munkres, Topology, Sections 12, 17, and 18. McCleary, ... However, you must write up your solutions individually and understand them completely. Two take-home midterms: (12.5% each) These are glorified HW assignments that you are to work on individually. They will replace the usual HW for two weeks of the term, namely the ones due Sept 23 and ...

### **Math 525, Topology**

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## **Munkres Algebraic Topology Solutions**

Section 29: Problem 1

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Solution Working problems is a crucial part of learning mathematics. No one can learn topology merely by poring over the definitions, theorems, and examples that are worked out in the text.

### **Section 29: Problem 1**

#### **Solution | dbFin**

The metric is one that induces the product (box and uniform) topology on  $\mathbb{R}^n$ ; The metric is one that induces the product topology on  $\mathbb{R}^n$ ; As we shall see in §21, if  $X$  and  $Y$  are metrizable, then there is a sequence of elements of  $X \times Y$  converging to  $(x, y)$  in the box topology is not metrizable. If then in the box topology, but there is

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clearly no sequence of elements of converging to in the box topology.

## Section 20: The Metric Topology | dbFin

A solutions manual for Topology by James Munkres 2. Functions. 1. Let  $(f : A \rightarrow B)$ . Let  $(A_0 \subset A)$  and  $(B_0 \subset B)$ .

## Functions | 9beach

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

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and the uniform conti-

## Section 26. Compact Sets

Munkres - Topology - Chapter  
4 Solutions Section 30

Problem 30.1. Solution: Part

(a) Suppose  $X$  is a finite-  
countable  $T_1$  space. Let  
 $\{x\}$  be a one-point set in  $X$ ,  
which must be closed. Let  $\{B_n\}$   
be a collection of  
neighborhoods of  $x$  such that  
every neighborhood of  
 $x$  contains at least one  $B_n$ .  
Clearly  $x$  is contained in  
every  $B_n$ . If  $\{x\}$  is open,  
then some  $B_n$

## Munkres - Topology - Chapter 4 Solutions

CHAPTER 1 The Algebra and  
Topology of  $\mathbb{R}^n$  § 1. Review

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of Linear Algebra 1 §2.  
Matrix Inversion and  
Determinants 11 §3. Review  
of Topology in  $\mathbb{R}^n$  25 §4.  
Compact Subspaces and  
Connected Subspaces of  $\mathbb{R}^n$  32  
CHAPTER 2 Differentiation 41  
§5. Derivative 41 §6.  
Continuously Differentiable  
Functions 49 §7. The Chain  
Rule 56 §8.

## **Analysis - University of Crete**

Section 26: Compact Spaces A  
compact space is a space  
such that every open  
covering of contains a  
finite covering of .; If a  
space is compact in a finer  
topology then it is compact  
in a coarser one. If a space

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is compact in a finer topology and Hausdorff in a coarser one then the topologies are the same.

## **Section 26: Compact Spaces | dbFin**

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