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9beach Section 18:

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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

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subbasis element)  
of is open in .

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- Chapter 2  
Solutions Section  
13 Problem 13.1.

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

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each  $x \in A$  there is  
an open set  $U$   
containing  $x$  such  
that  $U \cap A \neq \emptyset$ .

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- Chapter 2  
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- Chapter 3  
Solutions Section  
24 Problem 24.3.

Solution: Define  $g: X \rightarrow \mathbb{R}$  where  $g(x) =$

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$f(x) \circ i_R(x) = f(x)$

where  $i_R$  is the identity function.

Since  $f$  and  $i_R$  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 3

*Page 16/37*



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### Solutions

The proof is very similar to Example 3 of §12. The empty set and  $X$  are in the collection because their complements are  $X$  and the empty set, and the complement of any union of open sets is the intersection of the countable

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## Topology

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 Solution

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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

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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 ...

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follows is a wealth  
of applications—to  
the

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Problem 1 Solution  
Working problems  
is a crucial part of  
learning  
mathematics. No

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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

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The metric is one that induces the

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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  $Y$  is metrizable, then there is a sequence of elements of  $X$  converging to  $x$  in the box topology is not metrizable. If

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Topology

then in the box topology, but there is clearly no sequence of elements of  $\mathbb{R}^{\mathbb{R}}$  converging to  $f$  in the box topology.

Section 20: The Metric Topology | dbFin

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*Page 28/37*

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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

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## Topology

[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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## 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  $\mathcal{B} = \{B_n\}$

be a collection of  
neighborhoods of  
 $x$  such that every  
neighborhood of

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x contains at least one  $B_n$ . Clearly  $x$  is contained in every  $B_n$ . If  $f_x$  is open, then some  $B$

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- Chapter 4

Solutions

CHAPTER 1 The

Algebra and

Topology of  $\mathbb{R}^n$  1 §

1. Review of Linear

Algebra 1 §2.



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## Topology

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.

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The Chain Rule 56

§8.

Solutions

Analysis -

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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

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

Section 26:  
Compact Spaces |  
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