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One can learn topology merely by poring over the definitions, theorems, and examples that are worked out in the text. One must work part of it out for oneself. To provide that opportunity is the purpose of the exercises. James R. Munkres.

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

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Fundamental Group Note. These  
supplemental notes are based on  
James R. Munkres' Topology, 2nd  
edition, Prentice Hall (2000).

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Note. We are interested in when two topological spaces are homeomorphic. There is no general method to determine when there is such a homeomorphism. However,

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9. Homotopy group of  $X$ ; For a path connected space (or for a path connected component of a space) the choice of the point is not important: if  $X$  is path connected, then  $\pi_1(X, x_0)$  is isomorphic to  $\pi_1(X, x_1)$ . To show this, for a path connecting  $x_0$  and  $x_1$ , we introduce the

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9 map defined by which is a group isomorphism.; The reference point is still needed, because the isomorphism between ...

*Section 52: The Fundamental Group | dbFin*

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Below are links to answers and solutions for exercises in the Munkres (2000) Topology, Second Edition. Chapter 1. Section 1: Fundamental Concepts; Section 2: Functions; Section 3: Relations; Section 4: The Integers and the

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9 Real Numbers; Section 5:  
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We will then venture into basic algebraic topology, where topics may include homotopy, the fundamental group, covering spaces and the classification of surfaces (such as a torus, the Klein bottle). Text: Topology, 2nd

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9 Edition, James R. Munkres We will cover Chapter 2 and 3 (Point-set topology) and then Chapter 9 (Basic algebraic topology).

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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

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Set  $U$  containing  $x$  such that  $U \in \mathcal{A}$ .  
Show that  $\mathcal{A}$  is open in  $X$ . Solution:  
Let  $\mathcal{C} \subseteq \mathcal{A}$  the collection of open sets  $U$  where  $x \in U \in \mathcal{A}$  for some  $x \in A$ .  
Suppose  $U$

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Problem 30.9. Solution: Let  $A$  be a

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closed subset of Lindelöf space  
 $X$  and  $\mathcal{C}$  be an open covering of the  
subspace  $A$ . The set  $X \setminus A$  is closed  
in  $X$ . For each  $C \in \mathcal{C}$ , there is an  
open set  $D \subset X$  where  $C = D \cup A$ .  
The collection  $\mathcal{D} = \{D \in \mathcal{C} : C \in \mathcal{C} \text{ and } X \setminus A \subset D\}$   
is an open covering of  $X$ , so  
there is a countable subcollection

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$D_0$  of  $D$  covers  $X$ . Since  
 $X \setminus A$  does not cover

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Solutions*

Problem 24.9. Solution: Designate  
 $X = \mathbb{R}^2 \setminus A$ , and let  $x, y \in X$  be given.  
If there is no element of  $A$  on the

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9 straight-line path in  $\mathbb{R}^2$  from  $x$  to  $y$ , then there is obviously a path between the two points by exercise 24.8(a). In the non-trivial case where there is an element of  $A$  on the straight-line path between  $x$  and  $y$ , designate  $D$

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