

# 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  $\mathcal{B} = \{B_\alpha\}$  be a collection of neighborhoods of  $x$  such that every neighborhood of  $x$  contains at least one  $B_\alpha$ . Clearly  $x$  is contained in every  $B_\alpha$ . If  $\{x\}$  is open, then some  $B_\alpha = \{x\}$ , so the intersection of the sets in  $\mathcal{B}$  equals  $\{x\}$ . If, on the other hand,  $\{x\}$  is not open, suppose there is some  $y \in X$  not equal to  $x$  that is contained in every  $B_\alpha$ . It follows that  $V = \bigcap_\alpha (X \setminus B_\alpha)$  is closed and does not contain  $\{x, y\}$ . Since  $\{y\}$  is closed, it follows that  $V \cup \{y\}$  is closed. Thus  $W = X \setminus (V \cup \{y\})$  is open, contains  $x$ , and does not contain  $y$ . But then no  $B_\alpha$  is contained in  $W$ , contradicting that  $\mathcal{B}$  is a countable basis. It follows that if  $\{x\}$  is not open, the only point in common with all  $B_\alpha$  is  $x$ . Thus  $\bigcap_\alpha B_\alpha = \{x\}$ , as we sought to show.

**Part (b)** I'm not sure what the answer here is. Perhaps  $\mathbb{R}^J$  where  $J$  is an uncountable set.

### Problem 30.3.

**Solution:** Let  $X$  be a space with a countable basis  $\{B_\alpha\}$ . Given an uncountable subset  $A$  of  $X$ , there must be some basis element  $B_k$  that contains an uncountable number of points in  $A$  (otherwise, each  $B_\alpha$  would contain a countable number of points of  $A$ , so  $A = \bigcup_\alpha (B_\alpha \cap A)$  would be countable by Theorem 7.5). Let  $x \in B_k$  that is not a limit point of  $A$ . It follows that there must be some neighborhood of  $x$  that intersects  $A$  only at  $x$ , in which case there must be a basis element  $B_j$  that contains  $x$  and no other points in  $A$ . Since  $\{B_\alpha\}$  is countable, there may only be a countable number of such  $x$ . Let  $X_{\text{nt}}$  be the set of all  $x \in A$  that are not limit points of  $A$ . The set  $A \setminus X_{\text{nt}}$  is the set of points in  $A$  that are its limit points. It must be that  $A \setminus X_{\text{nt}}$  is uncountable because  $A = X_{\text{nt}} \cup (A \setminus X_{\text{nt}})$ , which is uncountable. Thus  $A$  has an uncountable number of limit points.

### Problem 30.4.

**Solution:** The solution is analogous to that for exercise 30.5(b).

### Problem 30.5.

**Solution: Part (a)** This is an interesting problem with an analog to the density of rational numbers in  $\mathbb{R}$  under the standard topology. Let  $X$  be a metrizable space with a countably dense subset  $A = \{a_n\}_n$ . Designate  $\mathcal{B} = \{B_d(a_n, r) : a_n \in A \text{ and } r \in \mathbb{Q}_{>0}\}$ . The set  $A \times \mathbb{Q}_{>0}$  is a finite product of countable sets, so it is countable. The map  $f : \mathcal{B} \rightarrow A \times \mathbb{Q}_{>0}$  where  $f(B_d(a_n, r)) = a_n \times r$  is an injection, so  $\mathcal{B}$  is countable. We'll skip over showing that  $\mathcal{B}$  constitutes a basis, but trust that it is.

The topology generated by  $\mathcal{B}$  is identical to the metric topology. Let  $B_\epsilon = B_d(x, \epsilon)$  where  $x \in X$  and  $\epsilon > 0$ . Given  $y \in B_\epsilon$ , let  $\delta < 1/4(\epsilon - d(x, y))$ , from which it follows that  $B_d(y, \delta)$  is contained in  $B_\epsilon$ . Because  $A = \overline{A}$ , it must be that  $y$  is in  $A$ 's closure, so  $B_d(y, \delta)$  contains some  $a_k \in A$ . Let  $p \in \mathbb{Q}_{>0}$  where  $\delta < p < 2\delta$ , which must exist by the density of rational numbers. The ball  $B_d(a_k, p)$  belongs to  $\mathcal{B}$ , contains  $y$  (since  $d(y, a_k) < \delta < p$ ), and is contained in  $B_\epsilon$ : Given  $z \in B_d(a_k, p)$ , it follows that:

$$\begin{aligned} d(x, z) &\leq d(x, y) + d(y, a_k) + d(a_k, z) < d(x, y) + 1/4(\epsilon - d(x, y)) + 1/2(\epsilon - d(x, y)) \\ &= 3\epsilon/4 + 1/4d(x, y) < 3\epsilon/4 + \epsilon/4 = \epsilon. \end{aligned}$$

Thus the topology generated by  $\mathcal{B}$  is finer than the metric topology. On the other hand, given  $B_\xi = B_d(a_j, \xi)$  for some  $a_j \in A$  and  $\xi \in \mathbb{Q}_{>0}$  and some  $y \in B_\xi$ , there is a metric basis element  $B_d(y, \epsilon)$  for  $\epsilon > 0$  contained in  $B_\xi$ , so the metric topology is finer than the topology generated by  $\mathcal{B}$ . Hence the two topologies are equal, so  $X$  has a countable basis.

**Part (b)** The following argument applies equally well to exercise 30.4. Suppose  $X$  is a metrizable Lindelöf space. Let  $\mathcal{A}_n = \{B_d(x, 1/n) : x \in X\}$  for  $n \in \mathbb{N}$ , which is obviously an open covering of  $X$ . For each  $n$ , there is a countable subcollection  $\mathcal{A}'_n = \{B_d(x_{n,j}, 1/n)\}$  of  $\mathcal{A}_n$  that covers  $X$ . Designate  $\mathcal{B} = \bigcup_{n \in \mathbb{N}} \mathcal{A}'_n$  (and if  $X$  is compact, this subcollection would be finite, as well). Since each  $\mathcal{A}'_n$  is countable and their union is countable,  $\mathcal{B}$  is countable by Theorem 7.5.

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**Jicheng Xie**



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### **Table of Contents Solutions Problems Munkres Topology**

1. Understanding the eBook Solutions Problems Munkres Topology
  - The Rise of Digital Reading Solutions Problems Munkres Topology
  - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Problems Munkres Topology
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solutions Problems Munkres Topology
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Problems Munkres Topology
  - Personalized Recommendations
  - Solutions Problems Munkres Topology User Reviews and Ratings
  - Solutions Problems Munkres Topology and Bestseller Lists

5. Accessing Solutions Problems Munkres Topology Free and Paid eBooks
  - Solutions Problems Munkres Topology Public Domain eBooks
  - Solutions Problems Munkres Topology eBook Subscription Services
  - Solutions Problems Munkres Topology Budget-Friendly Options
6. Navigating Solutions Problems Munkres Topology eBook Formats
  - ePub, PDF, MOBI, and More
  - Solutions Problems Munkres Topology Compatibility with Devices
  - Solutions Problems Munkres Topology Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solutions Problems Munkres Topology
  - Highlighting and Note-Taking Solutions Problems Munkres Topology
  - Interactive Elements Solutions Problems Munkres Topology
8. Staying Engaged with Solutions Problems Munkres Topology
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solutions Problems Munkres Topology
9. Balancing eBooks and Physical Books Solutions Problems Munkres Topology
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solutions Problems Munkres Topology
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Solutions Problems Munkres Topology
  - Setting Reading Goals Solutions Problems Munkres Topology
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solutions Problems Munkres Topology
  - Fact-Checking eBook Content of Solutions Problems Munkres Topology
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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