

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_α . Clearly x is contained in every B_α . 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_α . 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_α 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_α 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_α 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_{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_ϵ . 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_ϵ : 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_ξ , 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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