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Topology Munkres Solutions Chapter 4 topology is ner 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 Lindelof space. Let $\mathcal{A} = \{A_n : n \in \mathbb{N}\}$ be an open covering of X . For each

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Section 30: The Countability Axioms First countability axiom: for every point there is a countable basis at x . x is called first-countable.; Continuous functions and converging sequences in first-countable spaces (compare to § 21):

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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 Real Numbers; Section 5: Cartesian Products; Section 6: Finite Sets; Section 7: Countable and Uncountable Sets

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If the set X is equipped with the finite complement topology then every subspace of X is compact. Proof. Suppose $\mathcal{A} = \{A_\alpha\}$ is an open covering of X Theorem 4. A finite union of compact subspaces of X is compact. Proof. Let A_1, \dots, A_n be compact subspaces of X . Solutions to exercises in Munkres Author:

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Problem 24.4. Solution: If X has only one element, it is trivially a linear continuum, so we will assume X has at least two elements. Let $x, y \in X$ with $x < y$. Since X is connected, (x, y) and $(x, 1)$ cannot be a separation of the space. Since the two open sets are clearly non-empty, it must be that they are not disjoint.

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