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

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If the set X is equipped with the finite complement topology then every subspace of X is compact. Proof. Suppose $A \subseteq X$ and let \mathcal{A} be an open covering of A 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 $x < y$. Since X is connected, (x, y) and (x, y) 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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