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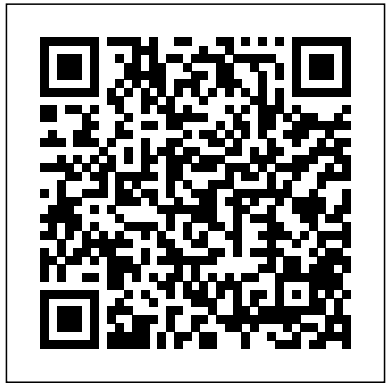

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Problem 24.4. Solution: If Xhas only one element, it is trivially a linear continuum, so we will assume Xhas at least two elements. Let x;y2Y where x<y. Since Xis connected, (1 ;y) and (x;1) cannot be a separation of the space. Since the two open sets are clearly non-empty, it must be that they are not disjoint.

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Topology Munkres Solutions Chapter 4 topology is ner than the topology generated by B. Hence the two topologies are equal, so Xhas a countable basis. Part (b) The following argument applies equally well to exercise 30.4. Suppose X is a metrizable Lindel of space. Let A n= fB d(x;1=n) : x2Xgfor n2N, which is obviously 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 . 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 ?nite complement topology then every

subspace of X is compact. Proof. Suppose A ? X and let A be an open covering of A. ... Theorem 4. A ?nite union of compact subspaces of X is compact. Proof. Let A 1, ... Solutions to exercises in Munkres Author:

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Section 1: Problem 4 Solution. Working problems is a crucial part of learning mathematics. No 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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