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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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Solutions Problems Munkres Topology

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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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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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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