Topology Munkres Solutions Chapter 9

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2 Ex. 23.12. Assume that the subspace Y is connected. Let X − Y = A ∪ B be a separation of X −Y and Y ∪A = C ∪D a separation of Y ∪A.

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Section 23: Problem 9 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.

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Text: Topology, 2nd Edition, James R. Munkres We will cover Chapter 2 and 3 (Point-set topology) and then Chapter 9 (Basic algebraic topology). Hopefully we get to Chapter 12 and 13 too. See the tentative lecture plan.

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Theorem 1. Every order topology is Hausdorff. Proof. Let (X,≤) be a simply ordered set. Let X be equipped with the order topology induced by the simple order. Furthermore let a and b be two distinct points in X, may assume that a < b. Let A = {x ∈ X |a < x < b}, i.e. the set of elements between a and b.

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As an example, consider with the product topology, with the dictionary order topology (the ordered square,), and with the subspace topology inherited from in the dictionary order topology (the latter is the same as the product topology). Then is strictly finer than and , where the latter two topologies are not comparable.

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Connectedness is a topological property: any two homeomorphic topological spaces are either both connected, or both disconnected, and the same set can be connected in one topology but disconnected in another, for example, and . A space is connected iff the only sets that are both open and closed in it are the whole space and the empty set.

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Topology Munkres Solutions Chapter 9

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Munkres - Topology - Chapter 3 Solutions Section 24 Problem 24.3. Solution: De ne g: X!R where g(x) = f(x) i R(x) = f(x) xwhere i R is the identity function. Since fand i R are continuous, gis continuous by Theorems 18.2(e) and 21.5. Since Xis connected for all three possibilities given in this

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Munkres - Topology - Chapter 4 Solutions Section 30 Problem 30.1. Solution: Part (a) Suppose Xis a nite-countable T 1 space. Let fxgbe a one-point set in X, which must be closed. Let B= fB ngbe a collection of neighborhoods of xsuch that every neighborhood of xcontains at least one B n. Clearly xis contained in every B n. If fxgis open, then some B

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Munkres - Topology - Chapter 2 Solutions Section 13 Problem 13.1. Let Xbe a topological space; let Abe a subset of X. Suppose that for each x2Athere is an open set U containing xsuch that UˆA. Show that Ais open in X. Solution: Let C A the collection of open sets Uwhere x2U Afor some x2A. Suppose U

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Munkres 51. Homotopy of Paths 1 Munkres Chapter 9. The Fundamental Group Note. These supplemental notes are based on James R. Munkres' Topology, 2nd edition, Prentice Hall (2000). Note. We are interested in when two topological spaces are homeomorphic. There is no general method to determine when there is such a homeomorphism. However,

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Topology (2nd ed.) | James R. Munkres x53. Covering Spaces 1. Let Y have the discrete topology. Show that if p : X Y ! X is projection on the rst coordinate, then p is a covering map. It is clear that p is continuous and surjective (if you have doubts, read pp. 107{110). Pick x 2 X and let U be a neighbourhood of x. We will show that U is

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