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A solutions manual for Topology by James Munkres. 2. Functions. 1. Let $f: A \rightarrow B$. Let $A_0 \subset A$ and $B_0 \subset B$. (a) Show that $f^{-1}(B_0) \cap A_0 \subset f^{-1}(B_0 \cap f(A_0))$ and that equality holds if f is injective. (b) Show that $f(f^{-1}(B_0)) \subset B_0$ and that equality holds if f is surjective. Proof. (a) $x \in f^{-1}(B_0) \cap A_0 \Rightarrow f(x) \in B_0$ and $x \in A_0 \Rightarrow f(x) \in f(A_0) \Rightarrow f(x) \in B_0 \cap f(A_0) \Rightarrow x \in f^{-1}(B_0 \cap f(A_0))$.

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Professor Munkres is a differential topologist, and is also responsible for the Munkres assignment algorithm. He authored numerous texts, including Topology (a well-known undergraduate course book), Analysis on Manifolds, Elements of Algebraic Topology, and Elementary Differential Topology.

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from a subspace to is continuous.; is continuous if is a subspace of containing or is a subspace of .; If is also continuous, is continuous.; If is also continuous, and is ordered, then is continuous.; Extending the domain Local definition of continuity: is continuous iff is continuous for each where is an arbitrary collection of open subsets of such that .

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Elements of Algebraic Topology provides the most concrete approach to the subject. With coverage of homology and cohomology theory, universal coefficient theorems, Kunneth theorem, duality in manifolds, and applications to classical theorems of point-set topology, this book is perfect for communicating complex topics and the fun nature of algebraic topology for beginners.

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