

Topology Problem Solutions

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Topology Problem Solutions

Solution: Just mimic the proof of the computation of the homology of a sphere, replacing the northern hemisphere by the top half of the suspension, the southern hemisphere by the bottom half, and the equator by X. 4.

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Intro to Topology - Mathematics

4 TOPOLOGY: NOTES AND PROBLEMS Remark 2.7 : Note that the co-countable topology is ner than the co- nite topology. 3. Basis for a Topology Let Xbe a set. A basis B for a topology on Xis a collection of subsets of Xsuch that (1)For each x \in X;there exists B \in B such that x \in B. (2)If x \in B \cap B' for some B \in B, B' \in B then there exists B'' such that x \in B ...

TOPOLOGY: NOTES AND PROBLEMS

Topology I - Exercises and Solutions July 25, 2014 1 Metric spaces 1.Let pbe a prime number, and d: Z Z[0;+1] be a function de ned by d p(x;y) = p maxfm \in ZN : p m \leq x-yg. Prove that d pis a metric on Zand that d p(x;y) maxfd p(x;z);d p(z;y)gfor every x;y;z \in Z. Proof. The symmetry condition is trivial. By p>0 and m \in ZN, we have p m>0 for every m \in ZN ...

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Solution: Let R be the space with the usual topology (i.e. based on the usual metric). Let A n = (1/n; n); n \in Z. De ne W n = RnA n. As A n is open, W n is closed. Now S \cap 2N W n = Rn T n \in ZN A n. But this is just Rn \cap 0g, which is open as it is the union of two open intervals: (1 ;0) S (0;1). Therefore, this union of closed sets is not closed. Problem 6

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In mathematics, topology (from the Greek words τόπος, 'place, location', and λόγος, 'study') is concerned with the properties of a geometric object that are preserved under continuous deformations, such as stretching, twisting, crumpling and bending, but not tearing or gluing. A topological space is a set endowed with a structure, called a topology, which allows defining continuous ...

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A first course in algebraic topology

(b) Show that if T' is any other topology on X in which d is continuous, then the metric topology is coarser than T'. Solution Preview This material may consist of step-by-step explanations on how to solve a problem or examples of proper writing, including the use of citations, references, bibliographies, and formatting.

Answer: Topology & Metric Space Questions

if the status of the individual problems is uncertain. We have addressed this issue by arranging a running update on such status in each volume of the journal TOPOLOGY AND ITS APPLICATIONS. This will be useful only if the reader takes the trouble of informing one of the editors about solutions of problems posed in this book.