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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 X be a set. A basis B for a topology on X is a collection of subsets of X such that (1) For each $x \in X$; there exists $B \in B$ such that

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$x \in B_1 \cap B_2$ for some $B_1, B_2 \in \mathcal{B}$ then there exists $B \in \mathcal{B}$ such that $x \in B$...

TOPOLOGY: NOTES AND PROBLEMS

Topology I - Exercises and Solutions July 25, 2014

1 Metric spaces

1. Let p be a prime number, and $d: \mathbb{Z} \times \mathbb{Z} \rightarrow [0; +1)$ be a function defined by $d(p(x; y) = p^{-\max\{m \in \mathbb{N} : p^m \mid x - y\}}$. Prove that d is a metric on \mathbb{Z} and that $d(p(x; y) \leq \max\{d(p(x; z); d(p(z; y))\}$ for every $x; y; z \in \mathbb{Z}$. Proof. The symmetry condition is trivial. By $p > 0$ and $m \in \mathbb{N}$, we have $p^{-m} > 0$ for every $m \in \mathbb{N}$...

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Solution: Let R be the space with the usual topology (i.e. based on the usual metric). Let $A_n = (1/n, 1/n + 1/n^2)$. Then A_n is open. Let $W_n = R \setminus A_n$. As A_n is open, W_n is closed. Now $S = \bigcap_{n \in \mathbb{N}} W_n = R \setminus \bigcup_{n \in \mathbb{N}} A_n$. But this is just $[0, 1]$, which is open as it is the union of two open intervals: $(-1, 0) \cup (0, 1)$. Therefore, this union of closed sets is not closed. Problem 6

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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' .

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Answer: Topology & Metric Space Questions

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