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Solutions to Homework # 2 Hatcher, Chap. 0, Problem 16.1 Let $R_1 := M_{n,1}(\mathbb{R})$, $R = \sum_{k=1}^{\infty} R_k$; \mathbb{R}^n : $x_n = 0$; \mathbb{R}^n , \mathbb{R}^n : We define a topology on R_1 by declaring a set $S \subseteq R_1$ closed if and only if, \mathbb{R}^n , 0 , the intersection S of with the finite dimensional subspace $\mathbb{R}^n = \{ (x_k)_{k=1}^n; x_k = 0; k > n \}$; is closed in the Euclidean topology of \mathbb{R}^n . For each $x \in R_1$ set $j \sim x_j := \sum_{k=0}^{\infty} x_k$

Solutions to Homework # 1 Hatcher, Chap. 0, Problem 4.

HATCHER'S ALGEBRAIC TOPOLOGY SOLUTIONS REID MONROE HARRIS Van Kampen's Theorem Problem 1. Suppose G and H are nontrivial groups. Suppose $x = g_1 h_1 \cdots g_n h_n$ lies in the center of $G * H$, where $g_i \in G$ and $h_i \in H$. For any $g \in G$, $h \in H$, we have $g g_1 h_1 \cdots g_n h_n g^{-1} h^{-1} \cdots g^{-1} h^{-1} = 1$. The only way for this to be true for all g is if $h_i = 1$ for all i .

Van Kampen's Theorem - math.uchicago.edu

spheres on Page 134 in Hatcher, which I did not discuss in class.) Solution: No one really did a good job with the last part. The point is that any invertible matrix is a product of elementary matrices, so by the first part we reduce the last part to the case where A is an elementary matrix E . If the elementary matrix E is a permutation

Algebraic Topology Homework 4 Solutions - boun.edu.tr

At the elementary level, algebraic topology separates naturally into the two broad channels of homology and homotopy. This material is here divided into four chap-

Preface - pi.math.cornell.edu

Algebraic Topology Introduction (Peter May) ... to introduce advanced undergraduates and beginning graduate students to a broad range of topics that are important to topology. This year the focus ...

Algebraic Topology Introduction (Peter May)

This is an expository account of two classical theorems in surface topology: Topological surfaces have unique smooth structures, and homeomorphisms of smooth surfaces are isotopic to diffeomorphisms. With the torus trick, almost no point-set topology is needed for the proofs.

Allen Hatcher's Homepage - pi.math.cornell.edu

Topology Hmwk 1 All problems are from Allen Hatcher Algebraic Topology (online) ch 3 Andrew Ma March 8, 2014 10. A triangulation T of a space X is a simplicial complex T and a homeomorphism $T \cong X$. Two simplicial complexes are isomorphic if there are homeomorphisms via a map that takes simplices to simplices via linear homeomorphisms. Two ...

Topology Hmwk 1 - WordPress.com

Thus, in the realm of categories, there is a functor from the category of topological spaces to the category of sets sending a space X to the set of path components $\pi_0 X$

Allen Hatcher: Algebraic Topology - web.math.ku.dk

Math 634: Algebraic Topology I, Fall 2015 Solutions to Homework #2 Exercises from Hatcher: Chapter 1.1, Problems 2, 3, 6, 12, 16(a,b,c,d,f), 20. 2. Suppose that the path h from x_0 to x_1 is homotopic. It follows easily that h is homotopic to i , as well. Then for any loop f based at x_1 , $h[f] = [hf] = [if] = i[f]$: 3. Suppose that $\gamma \in \pi_1(X; x_0)$

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