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HATCHER ' S ALGEBRAIC TOPOLOGY SOLUTIONS REID MONROE HARRIS Van Kampen ' s Theorem Problem 1. Suppose G and H are nontrivial groups. Suppose $x = g_1 h_1 \dots g_n h_n$ lies in the center of $G \times H$, where $g_i \in G$ and $h_i \in H$. For any $g \in G$, we have $g x = x g$. Thus $g g_1 h_1 \dots g_n h_n = g_1 h_1 \dots g_n h_n g$. This implies $g g_1 = g_1 g$, $g g_2 = g_2 g$, ..., $g g_n = g_n g$. The only way for this to be true for all $g \in G$ is if $h_i = 1$ for all i .

Van Kampen ' s Theorem

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Solutions to Homework # 2 Hatcher, Chap. 0, Problem 16.1 Let $R_1 := M_n(\mathbb{R})$, $R = \mathbb{R}^n$. $x = (x_k)_{k=1}^n$; $9N: x_n = 0$; $8n, N$ We define a topology on R_1 by declaring a set $S \subseteq R_1$ closed if and only if, $8n, 0$, the intersection S of with the finite dimensional subspace $R_n = \{x \in \mathbb{R}^n : x_k = 0; 8k > n\}$ is closed in the Euclidean topology of R_n . For each $x \in R_1$ set $j = x_j$

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

Math 634: Algebraic Topology I, Fall 2015 Solutions to Homework #3 Exercises from Hatcher: Chapter 1.2, Problems 4, 7, 8, 9, 14, 15, 21 (Y path-connected).

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Allen Hatcher's Algebraic Topology, available for free download here. Our course will primarily use Chapters 0, 1, 2, and 3. Prerequisites. In addition to formal prerequisites, we will use a number of notions and concepts without much explanation.

Math 215A: Algebraic Topology

A downloadable textbook in algebraic topology. What's in the Book? To get an idea you can look at the Table of Contents and the Preface.. Printed Version: The book was published by Cambridge University Press in 2002 in both paperback and hardback editions, but only the paperback version is currently available (ISBN 0-521-79540-0). I have tried very hard to keep the price of the paperback ...

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By Lemma 1.15 (Hatcher), every loop in X based at x_0 is homotopic to a product of loops, where each loop is either contained in e or A . Since $n \geq 2$, a loop contained in e is nullhomotopic, so every loop in X is homotopic to a loop in A . Thus if $[f] \in \pi_1(X; x_0)$, there there is a loop f_0 such that $[f_0] = [f]$. We have $f_0 = f_0$, so $[f_0] = [f_0] = [f_0] = [f]$

Homework 3 MTH 869 Algebraic Topology

Algebraic Topology. This book, published in 2002, is a beginning graduate-level textbook on algebraic topology from a fairly classical point of view. To find out more or to download it in electronic form, follow this link to the download page.

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ALLEN HATCHER: ALGEBRAIC TOPOLOGY MORTEN POULSEN All references are to the 2002 printed edition. Chapter 0 Ex. 0.2. Define $H: (\mathbb{R}^n - \{0\}) \times I \rightarrow \mathbb{R}^n - \{0\}$ by $H(x,t) = (1-t)x + t \cdot \frac{x}{\|x\|}$

Allen Hatcher: Algebraic Topology

Selected geometry & topology qualifying exam solutions Algebraic Topology, by Allen Hatcher Algebraic Topology: A First Course, by William Fulton Ian Coley 's qualifying exam solutions Austin Christian 's solutions for Fall 2016 Solution (a) M^n is a linear space, so $A+sH$ is in M^n for all $s \in \mathbb{R}$

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NOTES ON THE COURSE "ALGEBRAIC TOPOLOGY"

Algebraic Topology, Semester 1, 2015, Zhou Zhang Weeks 1 to 13 Following Chapters 0, 1 and 2 in "Algebraic Topology" by Allen Hatcher Overview Weeks 1-2: Chapter 0, Useful Geometric Notions Weeks 2-7: Chapter 1, Fundamental Group Weeks 7-13: Chapter 2, Homology Week 13: Wrap-up Before We Start The struggle between intuitive idea and rigorous ...

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topology will be found in Kelley [85], and in algebra in Jacobson [77]; or indeed in almost any other standard textbook. It will be implicitly assumed that the reader is familiar with the concepts of sets (and subsets), integers, and rational, real and complex numbers. 1.2 Set theory The notation $a \in A$ means that a is an element of the set A ; $A \subset B$

ALGEBRAIC TOPOLOGY - School of Mathematics

topology and $H^1(U)$ is the union of open sets of the form $W \times W \cap I$ containing $x \in I$. Since I is compact, by Tube Lemma $W \times W \cap I$ contains a tube $V \cap I$ about $x \in I$ where V is a neighborhood of

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x. So the restriction of $H_n V$ is a map from V to U . 2. Let $i: V \rightarrow U$ be an inclusion. Then $i^* \circ x$

a | H @ |

Math 635: Algebraic Topology II, Winter 2015 Homework #4: degree Exercises from Hatcher: Chapter 2.2, Problems 1, 2, 3, 4, 6, 8. 1. Let $f: D^n \rightarrow D^n$ be any map, and ...

Math 635: Algebraic Topology II, Winter 2015 Homework #4 ...

Solutions Problem Set 1 pdf: 02.02.06 10.02.06 - Problem Set 2 pdf: 02.03.06 10.03.06 pdf: Extra Reading Material for MATH4021. The extra reading material for MATH4021 consists of the pages 339 to 346 of the book A.Hatcher, Algebraic Topology. Cambridge University Press, Cambridge 2002.

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