# Solutions To Homework 1 Hatcher Chap 0 Problem 4

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416.HW1 Solutions to Homework 1

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Solutions to Homework #1 Exercises from Hatcher: Chapter 0, Problems 2, 3, 9, 10. 2. For all t 2[0;1], de ne f t: Rn r f0g!Sn 1 by f t(x) = 1 t+ t jxj x. This de nes a deformation retraction of Rn onto Sn 1. 3. I would like to use part (b)

(which says that homotopy of maps is an equivalence relation) in my solutions to parts (a) and (c).

Math 634: Algebraic Topology I, Fall 2015 Solutions to ...
Solutions to Homework # 1 Hatcher, Chap. 0, Problem 4. Denote by iA the inclusion map A ,! X. Consider a homotopy F: X £I ! X such that F0:= 1X; F1(X) ⊂ A; Ft(A) ⊂ A: We claim that g:= F1 is a homotopy inverse of iA, i.e. g ◦iA ⊂ 1A; iA ◦g ⊂ 1X: To prove the ﬁrst part consider the homotopy gt = F1 ¡tjA. Observe that g0 = g ◦iA; g1 = F0 ◦iA = 1A:

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Solutions to Homework # 1 Hatcher, Chap. 0, Problem 4. 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 hand ifrom x 0 to x 1 are homotopic. It follows easily that h is homotopic to i, as well. Then for any loop fbased at x 1,

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Solutions to Homework # 1 Hatcher, Chap. 0, Problem 4. Solutions to Homework # 2 Hatcher, Chap 0, Problem 161 Let R1:= M n□1 R= n ~x = (xk)k□1; 9N: xn = 0; 8n □ N We deflne a topology on R1 by declaring a set S □ R1 closed if and only if, 8n □ 0, the intersection S of with the flnite dimensional subspace Rn = [Book] Hatcher ...

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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 hand ifrom x 0 to x 1 are homotopic. It follows easily that h is ho-motopic to i, as well. Then for any loop fbased at x 1, h[f] = [hf h] = [if i] = i[f]: 3. Suppose that □ 1(X;x 1) is

abelian. Let hand ibe two ...

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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. ... but you must work on your own when you write down solutions. ... Homework 1. Solutions. Thursday, October 11 : Homework 2. Solutions. Thursday, October18 : Homework 3. Solutions. Thursday, October 25 : Homework 4 ...

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Solutions To Homework 1 Hatcher Chap 0 Problem 4

1 Do Hatcher 2.1.1 2 Do Hatcher 2.10.a - note that he means that every edge is glued to precisely one other edge. 3 Find a way to realize the \two-holed torus" (what Hatcher calls M 2) as a - complex. 4 Find a -complex Xsuch that □ 1(X) = Z 3. B Part B 1 Do Hatcher 2.1.4, 2.1.5 ,2.1.9 Due March 20 A Part A 1 Note: the following exercise is essentially a special case of Hatcher□s 1.40, which

Algebraic Topology I Homework Spring 2014

MATH 215B. SOLUTIONS TO HOMEWORK 1 1. (6 marks) Show that a space X is contractible iff every map f : X □ Y, for arbitrary Y, is nullhomotopic. Similarly, show Xis contractible iff every map f: Y □ Xis nullhomotopic. Solution Suppose every map f: X□ Y, for all Y, is nullhomotopic. Then in particular

MATH 215B. SOLUTIONS TO HOMEWORK 1 1. X Y X Y X Solution f ...

Homework 3 MTH 869 Algebraic Topology Joshua Ruiter February 12, 2018 Proposition 0.1 (Exercise 1.1.10). Let (X;x ... The image of fis a compact subset of X, so by Proposition A.1 in the Appendix (Hatcher), the image is contained in a nite subcomplex X□X. Let X1 be the 1-skeleton

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View Homework Help - HatcherSolutions from MATH 607 at Open University Malaysia. MATH 607 Solutions to Homework Problems Homework # 1: Hints Bredon, Sec. 1.1, Problem 2. Observe that f (x) = dist(x,

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Solutions to Homework # 1 Hatcher, Chap. 0, Problem 4. Hatcher, Chap 0, Problem 23 Suppose A;B are contractible subcomplexes of X such that X = A[B, and A\B is also contractible Since B is contractible we deduce X=B □ X The inclusion A ,! X maps A\B into B, and thus defines an injective continuous map j: A=A\B ,!

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1(@M) □=Z !H 1(M) □=Z is multiplication by 2. It now follows that H 1(M;@M) □=Z 2, using also that the map H 1(M) !H 1(M;@M) must be surjective because the map H 0(@M) !H

0(M) is injective from above. Finally, as H 1(@M) !H 1(M) is injective, this forces H 2(M;@M) to be 0. Recall that RP2 can be obtained from the Mobius strip by lling in the boundary

Sketches of solutions to selected exercises

Office Hours: Wed. 7□9 pm, Thurs. 7□9 pm, and Fri. 1:30□3:00 pm. Announcements Extra Credit Here is the promised extra credit assignment. The problems are from chapter 0 of Hatcher's book: Chapter 0 # 11, 15, 16, 18, 19, 24 ; Hatcher's Book Here is a link to Hatcher's book on algebraic topology: Hatcher, Algebraic Topology

Math 351 - Home Page

Solutions to Alan Hatcher's "Algebraic Topology" 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 hand ifrom x 0 to x 1 are homotopic. It follows easily that h is ho-motopic to i, as well. Then for any loop fbased at x 1,

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Homework 3: fundamental group and van Kampen (Hatcher 1.1-1.2) Homework 4: quotient spaces and fundamental group (Hatcher 1.2) Homework 5: covering maps (Hatcher 1.3) Homework 6: covering spaces (Hatcher 1.3) Homework 7: covering space actions and fundamental group (Hatcher 1.A-1.B) Homework 8: delta complexes and simplicial homology (Hatcher 2 ...

Topology - Michigan State University

(1) H(a;t) = afor all a2Aand all t2I, (2) H(x;0) = f(x) for all x2X, and (3) H(x;1) = g(x) for all x2X. Exercise 1. Let Cbe the cylinder [ □;□] S1, □ 2: C!S1 the projection. Consider the map f: C!Cde ned by f(s;x) := (s;A s+□x); where A := cos sin sin cos ! is the map S1!S1 given by counter-clockwise rotation through the angle . Note that

Algebraic Topology Homework 4 Solutions

the.The official textbook is Algebraic Topology by Hatcher. After class, I will post solutions online to help with grading although of course these solutions are not. solution algebraic topology Hatcher, Algebraic Topology, Cambridge University

Press, 2002. Homework, Date, Hand in, Solutions. Problem set 1 pdf, 22. May, A Concise