

NAME: \_\_\_\_\_

**INSTRUCTIONS:** *The exam is due via e-mail by 11:59 PM on Sunday, December 19th. It is preferable you type your exam in LATEX. Alternatively, you can scan your exam and e-mail it to me at [maxim@math.wisc.edu](mailto:maxim@math.wisc.edu) with the subject line "Final Exam". You must include this sheet with your exam in order to receive a grade. You must show all your work in order to receive full credit. No collaboration is permitted.*

**I.** (70 points) For a given a sequence of continuous maps

$$X_1 \xrightarrow{f_1} X_2 \xrightarrow{f_2} X_3 \xrightarrow{f_3} \dots$$

define the quotient space

$$M := \left( \bigsqcup_{i \geq 1} X_i \times [0, 1] \right) / ((x_i, 1) \sim (f_i(x_i), 0))$$

obtained from the disjoint union of cylinders  $X_i \times [0, 1]$  via the identification of  $(x_i, 1) \in X_i \times \{1\}$  with  $(f_i(x_i), 0) \in X_{i+1} \times \{0\}$ . Compute the fundamental group of  $M$  in the case when each  $X_i$  is a circle  $S^1$  and  $f_i : S^1 \rightarrow S^1$  is the map  $z \mapsto z^i$  (for each  $i \geq 1$ ).

**II.** (20 points) Prove that any map  $\mathbb{R}P^2 \times \mathbb{R}P^2 \rightarrow S^1$  is nullhomotopic.

**III.** (30 points) Construct a CW complex  $X$  with  $H_0(X) = \mathbb{Z}$ ,  $H_2(X) = \mathbb{Z}/4\mathbb{Z}$ ,  $H_4(X) = \mathbb{Z} \oplus \mathbb{Z}$  and all other homology groups trivial.

**IV.** (40 points) Show that if  $f : \mathbb{R}P^{2n} \rightarrow X$  is a covering map of a CW complex  $X$ , then  $f$  is a homeomorphism.

**V.** (40 points) If  $K$  is the Klein bottle, compute  $H_*(K; G)$  in each of the cases  $G = \mathbb{Z}, \mathbb{Z}/2\mathbb{Z}, \mathbb{Z}/3\mathbb{Z}$ .

**VI.** (50 points)

- Let  $X$  and  $Y$  be finite CW complexes. Show that  $X \times Y$  has the structure of a finite CW complex with an (open)  $n + m$  dimensional cell  $e \times e'$  for each  $n$  dimensional cell  $e$  in  $X$  and each  $m$  dimensional cell  $e'$  in  $Y$ .
- Show that for finite CW complexes  $X$  and  $Y$ , the Euler characteristic of the product  $X \times Y$  is computed by:  $\chi(X \times Y) = \chi(X) \cdot \chi(Y)$ .
- Suppose  $\pi : Y \rightarrow X$  is a  $k$ -sheeted covering map, where  $X$  is a finite CW complex and  $k$  is finite. Show that  $Y$  has the structure of a finite CW complex with  $\pi$  a cellular map and  $\chi(Y) = k \cdot \chi(X)$ .

**VII.** (50 points) Let  $A$  be the annulus in the plane consisting of the set

$$A := \{(x, y) \in \mathbb{R}^2 \mid 1 \leq x^2 + y^2 \leq 4\}.$$

Let  $S$  denote the surface obtained from  $A$  by identifying antipodal points of the inner circle and by identifying antipodal points of the outer circle. Compute  $\pi_1(S)$  and write  $S$  as a connected sum of tori and projective planes.

# Intro To Topology Final Exam Solutions

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