

MA448: K-theory and Solitons
Problem Set 1

Due Thursday, 29 January 2009

1 Homology of Cell Spaces

Compute integral cellular homology groups of the Klein bottle.

2 Homology of Simplicial Complexes

Calculate integral simplicial homology groups of the Klein Bottle.

3 Application of Mayer-Vietoris exact sequence

Problem 4.2 in H. Sato.

4 Homology of a Sphere with Two Handles

Problem 5.2 in H. Sato.