

1. HOMEWORK 12

Due: In Lecture 11-9

Problem 1. Complete the proof of the zig-zag lemma.

Problem 2. 15-1 out of Lee.

Problem 3. 15-3 out of Lee.

Problem 4. Use Meyer-Vietoris to show that if N is the disjoint union of k connected smooth manifolds, $\{M_i\}_{i=1}^k$, then

$$H_{DeR}^p(N) \cong \bigoplus_{i=1}^k H_{DeR}^p(M_i)$$