

## Assignment 3

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MAST 90023-Homotopy, Homology Theories, and Singular Homology

Due May 27, 2016

All of these problems are from “Elements of Algebraic Topology” by J. Munkres.

1. 19.2
2. 20.3 (a)
3. 21.2
4. 22.1
5. Prove the 5-Lemma, 24.3(a).
6. 24.5
7. 35.5
8. 38.1 Hint: For this problem you may want to consult Hatcher, the appendix.
9. 38.4
10. 40(a)