

## Math 525: Problem Set 3

**Due date:** In class on Wednesday, September 16.

**Course Web Page:** <http://dunfield.info/525>

**Office hours:** Mondays from 11-12, Tuesdays from 11:15 - 12:15, and by appointment. For an appointment, just talk to me after class, or email me at [nmd@illinois.edu](mailto:nmd@illinois.edu).

**Required Text:** Allen Hatcher, *Algebraic Topology*,

<http://www.math.cornell.edu/~hatcher/AT/ATpage.html>

1. Hatcher, Section 1.3, Problem 4.
2. Hatcher, Section 1.1, Problem 7.
3. Read Prop. 1.12 in Hatcher and work Section 1.1, Problem 10.
4. Hatcher, Section 1.1, Problem 12.
5. Hatcher, Chapter 0, Problem 1.
6. Hatcher, Chapter 0, Problem 2.