

# Homework 5

Due: Mar 6

1. Hatcher 1.3.18 (p.80)
2. Hatcher 1.3.20 (p.81)
3. Hatcher 1.3.24 (p.81)
4. Hatcher 1.3.29 (p.82)
5. Hatcher 2.1.1 (p.131)
6. Hatcher 2.1.5 (p.131)
7. Find a  $\Delta$ -complex structure for the orientable surface of genus two and compute the simplicial homology groups of this  $\Delta$ -complex.
8. Hatcher 2.1.8 (p.131)

Think about the following, but do NOT turn in:

- Hatcher 1.3.32 (p.82)
- Find a  $\Delta$ -complex structure for the orientable surface of genus  $g$  and compute the simplicial homology groups of this  $\Delta$ -complex.