

INTRO TO ALGEBRAIC TOPOLOGY
HOMEWORK 7 DUE MARCH 26

Turn in the following:

- (1) Hatcher Exercise 1.3.29 (p. 82)
- (2) Hatcher Exercise 2.1.1 (p. 131)
- (3) Hatcher Exercise 2.1.5 (p. 131)
- (4) Find a Δ -complex structure for the orientable surface of genus two and compute the simplicial homology groups of this Δ -complex.
- (5) Hatcher Exercise 2.1.8 (p. 131)

Think about the following (but do NOT turn in):

- Find a Δ -complex structure for the orientable surface of genus g and compute the simplicial homology groups of this Δ -complex.