## Math 534B Homework 6. Due 3/22

1) Compute the simplicial homology of the 3 -sphere using the $\Delta$-complex structure of two tetrahedra identified along its boundary.
2) A simplicial complex is a $\Delta$-complex where the image of the vertices determine the image of the simplices (each vertex maps to a unique point in the space $X$ ). Give a $\Delta$-complex structure on the 2 -sphere, 3 -sphere, and the 2 -torus that is a simplicial complex.
3) Hatcher 2.1: Exercise 6
4) Hatcher 2.1: Exercise 9

More practice:
Hatcher 2.1, Exercises 3, 4

