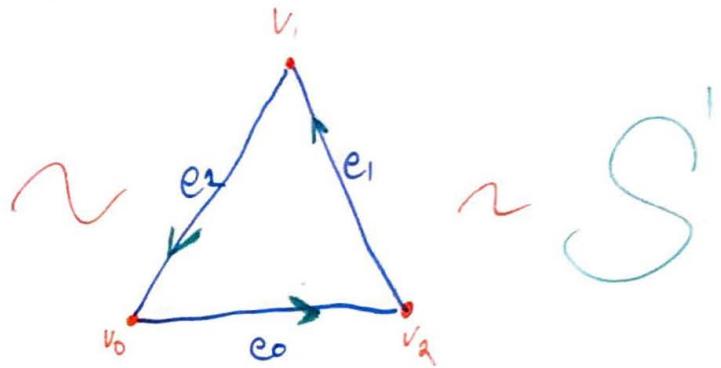
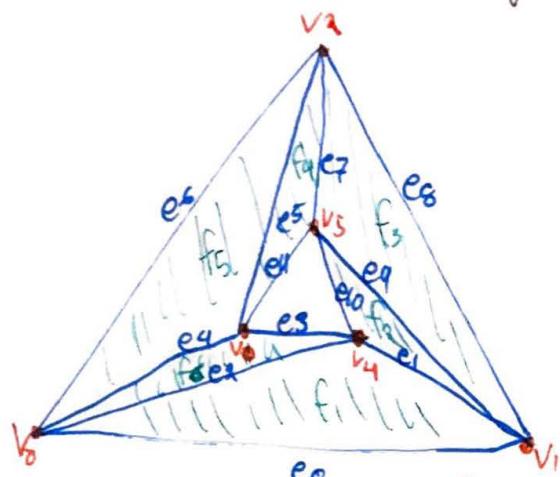


# Algebraic Topology

## Homework 6

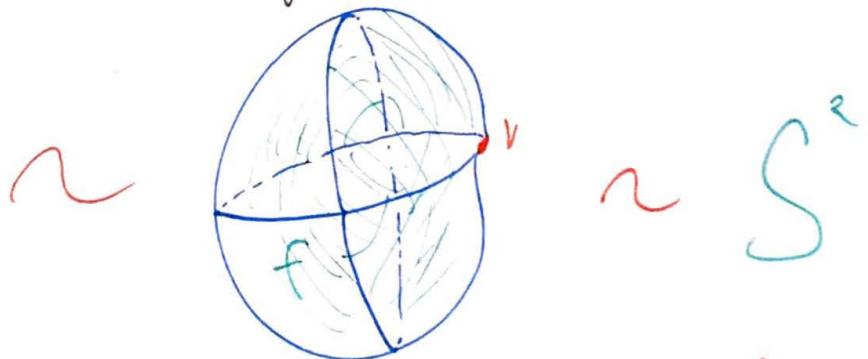
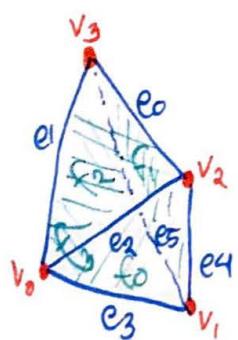
Ricardo J. Araújo

1. Draw a  $\Delta$ -complex for the annulus.



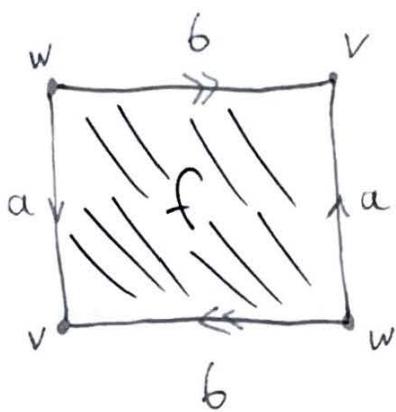
Note: I'll compute  $H_1$  on  $S'$ , or rather on the simplicial complex homeomorphic to  $S'$ .

5. Draw a  $\Delta$ -complex for  $S^2$



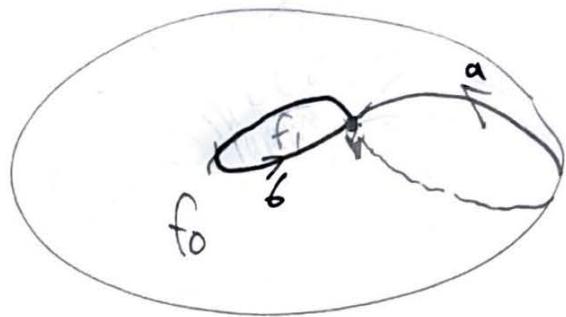
Note: I'll compute  $H_n$  on the CW-complex for  $S^2$ .

7. Draw a  $\Delta$ -complex for  $\mathbb{R}P^2$



Note: I'll be working  
on the CW-complex  
for  $\mathbb{R}P^2$ .

10.



12.

