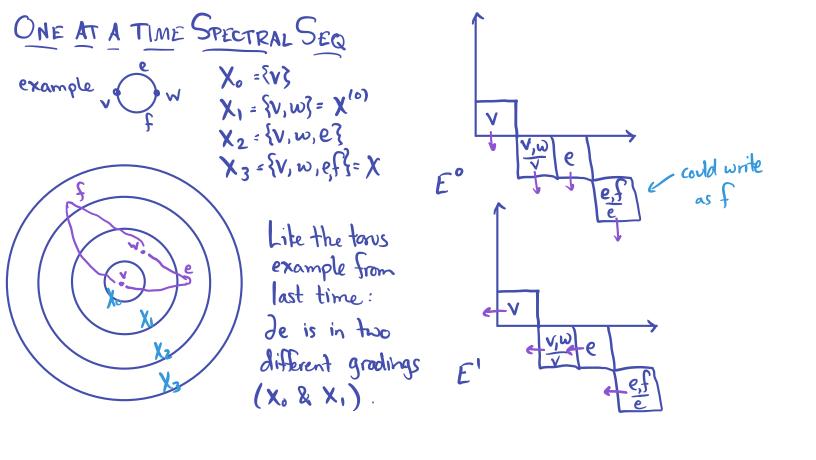
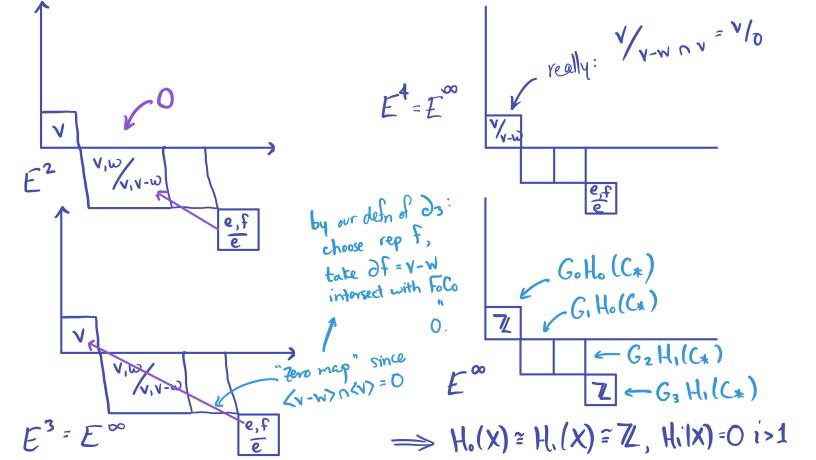
differential d is: choose a rep, take boundary. SPECTRAL SEQUENCES $X_0 \subseteq X_1 \subseteq X_2 \cdots$ $F_p C_{p+q} = abel gp. gen by$ $p+q chains in X_p$ Thm. (FpCx) = filtered complex Epq, d as above. · Dr: Epq - Ep-1, q+r-1 well det & dr = 0. Gp Cp+q = Fp Cp+q/Fp-1 Cp+q APR 20 · Ett is homology of (Et, dr)

i.e. Ep,q' = terdr/imdr.

• If Ci bodd wrt filtration then Epiq = {xcFpCp+q: dxcFp-rCp+q-1} = (Fp-1Cp+q+1)) n numer. V pig 3 large r s.t. = 1th approx | 1th approx | Epiq = Gp Hptq C*
of cycles. / 1th approx | Can do w/sing, cell, simpl. homology.





Pedo torus
example
from last
time