Questions asked by students on 2014-02-17.

Background:

1. What exactly does the $*$ represent in C_* & H_*?

2. Are commutative diagrams ok to use in formal proofs?

3. • Which are the differences between H_*, H_n, H_k, H_n^Δ, H_*^s, $\widetilde{H}_*$, $\widetilde{H}_k$, H_k^Δ, H_*^Δ, H_n^s, H_*^{sing}, H_n^{sing}?

   • ... between C_n, C_*, C_*^s, $C_n^\mathcal{U}$, $C_*^\mathcal{U}$, C_*^Δ, C_n, C_*^{sing}?

   • ... between i_n, i_*, $i_\#$?

4. How exactly do we compute homology groups using exact triangles?

Day of:

1. Do we have an explicit formula for the $j_\#$ discussed in the theorem 2.27 (as we just called it "the homomorphism"? Also in the proof part 2, we only proved surjectivity. can we get injectivity in a similar way?

Connections:

1. In $\mathbb{C}$–analysis, a curve is homologous to zero – is there a connection to this course in that?

Administration:

1. Will Assignment solutions be available online at any point? Each week I am only really able to solve 1 or 2 problems fully, and there isn't time in the Support Class to look at all the others.

2. If you struggle with some of the concepts of the course so far but enjoy the module, can you recommend another textbook?