Spring 2021, Math 621: Preliminary Problem Set 13 Due: Thursday, April 22nd, 2021 The Long Exact Sequence of Homology

Preliminary problems. These should be submitted to Gradescope before Thursday discussion.

(P1) Let X = I and $A = \{0, 1\}$. Locate $c \in C_1(X; \mathbb{Z})$ such that $[\overline{c}] \in H_1(X, A; \mathbb{Z})$ is nontrivial.