Math 527 - Homotopy Theory
Spring 2013
Homework 2, Lecture 1/23

Problem 1. Show that the reduced suspension $\Sigma X = X \wedge S^1$ of any pointed space X is a homotopy cogroup object in $\textbf{Top}_*$, with structure maps coming from those of S^1 (c.f. Homework 1 Problem 3).