

Math 527 - Homotopy Theory  
Spring 2013  
Homework 4, Lecture 2/6

**Problem 3.** Let  $A = \{0\} \cup \{\frac{1}{n} \mid n \in \mathbb{N}\}$  and  $X = I = [0, 1]$ . Show that the inclusion  $A \hookrightarrow X$  is *not* a cofibration.