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Homework 6

Problems

Problem 1: In 10. Construction of the Functor Morphism ϵ_F. Give the following details. III.42 should read

$$X \stackrel{s}{\leftarrow} Z \stackrel{t}{\rightarrow} Y$$

a) Why can Z be chosen to lie in $K^+(\mathcal{R})$.
b) Why is $K^+(s)$ a quis?
c) Fix the diagram on the bottom of the page and explain why such a Z exists.

Problem 2: Give the details of the calculation of 11. Axiom TR2 on GM p 246–247

Problem 3: Given the standard triangle $X \rightarrow Cyl(u) \rightarrow C(u) \stackrel{\delta}{\rightarrow} X[1]$ Show that $C(\delta) = Cyl(-u)[1]$.