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Homework 5

Problems

Problem 1: Prove that indeed $d^2_{C(f)} = d^2_{cyl(f)} = 0$.

Problem 2: In GM III 4.6 Theorem check that indeed $\delta(\bar{u}, \pi) = H^i(w)$.

Problem 3: In GM III 4.4 Theorem. Verify that χ gives the desired homotopy and give details for the argument for the condition c). In particular, check that g is a morphism of complexes and why is t a quasi–isomorphism.