

This thesis is devoted to Kan extensions. First, we provide needed definitions and prove a theorem which gives us an existence condition for a Kan extensions. The proof of this theorem also contains a guide to constructing Kan extensions. The main goal is to present a result which puts Kan extensions and adjoint functors in relation. We also connect this theorem to global Kan extensions. We apply these abstract results in the last chapter, where we formulate and solve a particular problem concerning adjoint functors between the categories of G -sets.