Henri Lombardi: Constructive steps towards Popescu desingularization theorem.

Finding one (or several) constructive content(s) of theorems of abstract algebra is one aim of constructive algebra. We will illustrate on simple examples, in relation with Popescu desingularization theorem, how we succeed to constructivize abstract proofs. Very often, we need at first to find "acceptable" definitions: an "acceptable" definition of a concept is a definition which is equivalent in classical mathematics to the usual one, but written in an elementary way that allows us to manage it as input or output of algorithms.