

In this thesis we will explain what are semifields and what interesting properties these algebraic objects possesses. In the first chapter we will go over some basics and preliminaries to understand what semifields are. In the second chapter we will prove some useful lemmata for either commutative and non-commutative case of semifields and provide some examples. At last we will try to do some research by ourselves, where we will try to find some examples of semifields.