

This bachelor's thesis is based on an article about the criterion for invertibility of elements in special-chosen cyclotomic rings. In this thesis, we start with defining important terms and statements from algebra that we need. Then we will deal with the existence of infinitely many prime numbers which satisfy conditions that are used for irreducible decomposition of cyclotomic polynomials. Based on this polynomials we define cyclotomic rings and at the end of this thesis we prove invertibility of elements from this rings depending on the size of their norm.