

Introduction to Galois work. Solving equations by radicals. Fields, extensions; subfields. Question: which are the subfields of \mathbb{Q} ?

Characteristic of a field. Field with 4 elements. Construction by hand, next as stem field of $X^2 + X + 1$ over \mathbb{F}_2 .

Proof of the fact that the number of elements of a finite field is p^r where p is the characteristic and r the dimension of the field as a vector space over the prime field.