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THE FUNDAMENTAL THEOREM OF GALOIS THEORY Important Theorem. If  $E=k$  is a finite extension, then the following statements are equivalent. (i)  $E$  is a splitting field of some separable polynomial  $f(x) \in k[x]$ . (ii)  $k = E^G$ , where  $G$  is the group of automorphisms of  $E$  fixing  $k$  (i.e.  $E/k$  is Galois). (iii) Every irreducible  $p(x) \in k[x]$  having one root in  $E$  is separable and splits in  $E$ .

### THE FUNDAMENTAL THEOREM OF GALOIS THEORY

In mathematics, Galois theory provides a connection between field theory and group theory. Using Galois theory, certain problems in field theory can be reduced to group theory, which is in some sense simpler and better understood. It has been used to solve classic problems including showing that two problems of antiquity cannot be solved as they were stated; showing that there is no quintic formula; and showing which polygons are constructible. The subject is named after Évariste Galois ...

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Galois theory. An  $n$ th root of unity is a complex number whose  $n$ th power is 1, a root of the polynomial  $x^n - 1$ . The set of all  $n$ th roots of unity form a cyclic group of order  $n$  under multiplication. ... Rotman, Joseph J. (1998), Galois Theory, Universitext, Springer, ...

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