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finite extension

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Synonym	finite field extension
Related topic	ExtensionField
Related topic	AlgebraicElement
Related topic	ExistenceOfTheMinimalPolynomial
Related topic	AlgebraicExtension
Related topic	ExtensionMathbbRmathbbQIsNotFinite
Related topic	AlgebraicSumAndProduct
Related topic	FiniteExtensionsOfDedekindDomainsAreDedekind

Let K an extension field of F . We say that K is a *finite extension* if $[K : F]$ is finite. That is, K is a finite dimensional space over F .

An important result on finite extensions establishes that any finite extension is also an algebraic extension.