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Writing R Extensions

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Definition 31.1. An extension field E of field F is an algebraic extension of F if every element in E is algebraic over F . Example. $\mathbb{Q}(\sqrt{2})$ and $\mathbb{Q}(\sqrt{3})$ are algebraic extensions of \mathbb{Q} . \mathbb{R} is not an algebraic extension of \mathbb{Q} . Definition 31.2. If an extension field E of field F is of finite dimension n as a

Section VI.31. Algebraic Extensions

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In this case, we say that E is algebraic over F . This will be the important case for us, so we state the main result as a proposition: Proposition 1.1. Suppose that E is an extension field of F and that $\alpha \in E$ is algebraic over F . Then $\ker \phi = (p(x))$, where $p(x) \in F[x]$ is an irreducible polynomial.

Extension Fields - Columbia University

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For example define $f(x) = 1$ for $0 < x < 1$. We are leaving $f(x)$ undefined for $x \leq 0$ or $x \geq 1$. $f(x)$ is a perfectly legitimate, but virtually useless, periodic extension of f . There are two periodic extensions for $f(x)$ that are very useful.

Periodic Extensions - University of British Columbia

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36. Show that if K is a finite dimensional field extension of F , then K is algebraic over F . 37. Let F be a field, let $E = F(a)$ be a simple extension field of F , and let $b \in E$. Prove that a is algebraic over $F(b)$. 38. Show that if $j \in \mathbb{Q} \setminus \mathbb{Z}$, then there exists a square free integer m different from 1 so that $F = \mathbb{Q}(p^m)$. 39.

ALGEBRA QUALIFYING EXAM PROBLEMS FIELD THEORY

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FIELD THEORY Contents - Department of Mathematics

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By the above proposition, there exists an extension of F in which $d(X)$ has a root $\hat{\alpha}$. Since $d(X)$ divides both $f(X)$ and $g(X)$, $\hat{\alpha}$ is a common root of f and g in E . 2. By the first part, it is enough to show that f and g are relatively prime.

Field Theory - Nanyang Technological University

Note that $g(u + a) = f(u) = 0$ so that $u + a$ is algebraic over K and $g(x)$ is the minimal polynomial for $u + a$. Since $\deg f = \deg g$ the degree of $u + a$ over K is equal to the degree of u over K . Problem 6.1.4. Show that $p^3 \equiv 2 \pmod{p^2}$. Proof. Suppose for a contradiction that $p^3 = a + bp^2$.

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