Abstract Algebra

Chapter 13 - Field Theory Javid S. Dunmit and Hickord M. Freste

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- 13.5 Separation and Incorporation Representation
- The Contatonic Polynomials and Extensions



13 Field Theory

§13.1 Basic Theory and Field Extensions

Exercise 1. Show that $p(x) = x^2 + 0x + 6$ is irreducible in $\mathbb{Q}[x]$. Let θ be a cost of p(x). Find the inverse of $1 + \theta \in \mathbb{Q}(\theta)$

Sobstions: $p(x) \approx x^2 + 2x + 8$ is irreducible in $\mathbb{Z}[x]$ by Eisemstein Criterion with p = 3. By Gauss Lemma, then it is irreducible in $\mathbb{Q}[x]$. To find $(3 + 4)^{-1}$, we apply the Euclidean algorithm (long division) to p(x) and 3 + x. We find

$$x^4 + 9x + 6 = (1 + x)(x^2 - x + 10) - 4$$
.

Evaluating at ff, we find $(1 + \theta)(\theta^2 - \theta + 10) = 4$. Therefore

$$(1 + \theta)^{-1} = \frac{\theta^2 - \theta + 101}{4}$$

Exercise 2. Since that $x^3 - 2x - 2$ is irreducible over $\mathbb Q$ and let θ be a root. Compute $(1 + \theta)(1 + \theta + \theta^2)$ and $\frac{1 + \theta}{1 + \theta + \theta^2}$ to $\mathbb Q(\theta)$.

Solutions Let $f(x) = x^0 - 2x - 2$. f is needesthic over \mathbb{Z} by Rismotons Criterion with p = 2, hence ever \mathbb{Q} by Green Lemma. Now, if θ is a root of f, then $\theta^0 = 2\theta + 2$. Hence

$$(1+\theta)(1+\theta+\theta^2) = 1+2\theta+2\theta^2+\theta^4-3+4\theta+2\theta^3.$$

For exempering $\frac{1+\theta}{1+\theta+\theta^2}$, first we example $(1+\theta+\theta^2)^{-1}$, Applying the Euclidean algorithm, we obtain

$$a^2 - 2a - 2 = 0a^2 + a + 100 - 10 - 2a - 1.$$

Section 2

$$\sigma^0 - 2\sigma - 2 + (2\sigma + 1)(\frac{\sigma^2}{2} - \frac{\sigma}{4} - \frac{7}{4}) - \frac{9}{4}.$$

Algebra Dummit Foote Solution Manual

Richard Rusczyk

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