

# Abstract Algebra

## Chapter 13 - Field Theory

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Solution Manual by positrón0802

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### 13 Field Theory

#### §13.1 Basic Theory and Field Extensions

**Exercise 1.** Show that  $p(x) = x^3 + 9x + 6$  is irreducible in  $\mathbb{Q}[x]$ . Let  $\theta$  be a root of  $p(x)$ . Find the inverse of  $1 + \theta \in \mathbb{Q}(\theta)$ .

**Solution:**  $p(x) = x^3 + 9x + 6$  is irreducible in  $\mathbb{Z}[x]$  by Eisenstein Criterion with  $p = 3$ . By Gauss Lemma, then it is irreducible in  $\mathbb{Q}[x]$ . To find  $(1 + \theta)^{-1}$ , we apply the Euclidean algorithm (long division) to  $p(x)$  and  $1 + x$ . We find

$$x^3 + 9x + 6 = (1 + x)(x^2 - x + 10) - 4.$$

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

$$(1 + \theta)^{-1} = \frac{\theta^2 - \theta + 10}{4}.$$

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

**Solution:** Let  $f(x) = x^3 - 2x - 2$ .  $f$  is irreducible over  $\mathbb{Z}$  by Eisenstein Criterion with  $p = 2$ , hence over  $\mathbb{Q}$  by Gauss Lemma. Now, if  $\theta$  is a root of  $f$ , then  $\theta^3 = 2\theta + 2$ . Hence

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

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

$$x^3 - 2x - 2 = (x^2 + x + 1)(x - 1) - 2x - 1,$$

and

$$x^3 - 2x - 2 = (2x + 1)\left(\frac{x^2}{2} - \frac{x}{4} - \frac{7}{8}\right) - \frac{9}{8}.$$

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