

Topics in Algebra solution

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Problems in Section 5.3.

1. In the proof of Lemma 5.3.1, prove that the degree of $q(x)$ is one less than that of $p(x)$.

Proof. Assuming $p(x)$ as a polynomial in $K[x]$. Then from $p(x) = (x-b)q(x) + p(b)$ implies that

$$\deg(p(x)) = \deg((x-b)q(x) + p(b)) = \deg((x-b)q(x)) = \deg(x-b) + \deg(q(x))$$

in $K[x]$. But since $\deg(x-b) = 1$, $\deg(q(x))$ is exactly one less than $\deg(p(x))$. $\square$

2. In the proof of Theorem 5.3.1, prove in all detail that the elements $1+V, x+V, \dots, x^{n-1}+V$ form a basis of E over F .

Proof. Refer the Problem 2, Section 5.1. $\square$

3. Prove Lemma 5.3.3 in all detail.

Proof. We prove that the mapping $\tau^*: F[x] \rightarrow F^*[t]$ defined by

$$f(x)\tau^* = (a_0 + a_1x + \dots + a_nx^n)\tau^* = (a_0\tau) + (a_1\tau)t + \dots + (a_n\tau)t^n$$

where $\tau: F \rightarrow F^*$ is an onto isomorphism. Choose $f(x), g(x) \in F[x]$ where

$$f(x) = a_0 + a_1x + \dots + a_nx^n,$$

$$g(x) = b_0 + b_1x + \dots + b_mx^m.$$

Observe that

$$\begin{aligned}(f(x) + g(x))\tau^* &= \left(\sum_{i=0}^k c_i x^i \right) \tau^* = \sum_{i=0}^k (c_i \tau) t^i \\ &= \sum_{i=0}^k (a_i + b_i) \tau t^i = \sum_{i=0}^k (a_i \tau + b_i \tau) t^i \\ &= \sum_{i=0}^k (a_i \tau) t^i + \sum_{i=0}^k (b_i \tau) t^i = f(x)\tau^* + g(x)\tau^*\end{aligned}$$

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