6 The Smith Canonical Form

6.1 Equivalence of Polynomial Matrices

DEFINITION 6.1

A matrix $P \in M_{n \times n}(F[x])$ is called a unit in $M_{n \times n}(F[x])$ if $\exists Q \in M_{n \times n}(F[x])$ such that

$$PQ = I_{n-}$$

Clearly if P and Q are units, so is PQ.

THEOREM 6.1

A matrix $P \in M_{n \times n}(F[x])$ is a unit in $M_{n \times n}(F[x])$ if and only if $\det P = e$, where $e \in F$ and $e \neq 0$.

percent

"only if". Suppose P is a unit. Then $PQ = I_m$ and

$$\det PQ = \det P \det Q = \det I_n = 1.$$

However det P and det Q belong to F[x], so both are in fact non-zero elements of F.

"if". Suppose $P \in M_{n \times n}(F[x])$ satisfies $\det P = c$, where $c \in F$ and $c \neq 0$. Then

$$P \operatorname{adj} P = (\operatorname{det} P)I_n = cI_n.$$

Hence $PQ = I_n$, where $Q = c^{-1}$ adj $P \in M_{n \times n}(F[x])$. Hence P is a unit in $M_{n \times n}(F[x])$.

EXAMPLE 6.1

$$P = \begin{bmatrix} 1+x & -x \\ x & 1-x \end{bmatrix} \in M_{2\times 2}(F[x])$$
 is a unit, as $\det P = 1$.

THEOREM 6.2

Elementary row matrices in $M_{n\times n}(F[x])$ are units:

- Eij: interchange rows i and j of In;
- (ii) E_i(t): multiply row i of I_n by t ∈ F, t ≠ 0;
- (iii) E_{ij}(f): add f times row j of I_n to row i, f ∈ F[x].

In fact det $E_{ij} = -1$; det $E_i(t) = t$; det $E_{ij}(f) = 1$.

Similarly for elementary column matrices in $M_{n \times n}(F[x])$:

$$F_{ij}$$
, $F_i(t)$, $F_{ij}(f)$.

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