#### 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<sub>i</sub>(t): multiply row i of I<sub>n</sub> by t ∈ F, t ≠ 0;
- (iii) E<sub>ij</sub>(f): add f times row j of I<sub>n</sub> 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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