(1)

$$M_{X}N = \left\{ (1,2), (1,3), (2,2), (2,3), (2,2), (3,3) \right\}$$

Danit:
$$\zeta = \{(1,2), [1,3), (2,3)\} \subseteq M_X N_c$$

F.12

Mahix (Mahizen)

$$A := \begin{pmatrix} a_{nn} & a_{n2} & a_{n3} \\ a_{2n} & a_{2n} & a_{2n} \end{pmatrix} = \begin{pmatrix} a_{ij} \end{pmatrix}_{i=n,...,3} |a_{ij} \in \mathbb{R}$$

$$a_{3n} & a_{3n} & a_{nn} \end{pmatrix}$$

$$a_{3n} & a_{3n} & a_{nn} \end{pmatrix}$$

$$a_{3n} & a_{nn} \end{pmatrix}$$

$$a_{3n} & a_{nn} \end{pmatrix}$$

$$a_{nn} & a_{nn} \rangle$$

$$a_{$$

$$B := \begin{pmatrix} b_{11} & b_{12} \\ b_{21} & b_{22} \\ b_{31} & b_{32} \end{pmatrix} = \begin{pmatrix} b_{11} \\ b_{11} \end{pmatrix}_{i=1,...,1}^{i=1,...,1} \in \mathbb{R}^{3\times 2}$$

$$C := \begin{pmatrix} 1 & 4 & 5 \\ 2 & 1 & -6 \end{pmatrix} \in \mathbb{R}^{2\times 3}$$

F. 14

2

3

RU [(2a))?

F.15 36 16 = 54656 1 6-6 2 64,

F.11

Haptdie gorde int du Diagonde, bei de du Fedires is glied sied.

$$A := \begin{pmatrix} a_{11} & a_{11} & a_{11} \\ a_{21} & a_{21} & a_{21} \\ a_{21} & a_{21} & a_{21} \end{pmatrix} \xrightarrow{\text{picycl}} A = \begin{pmatrix} a_{11} & a_{21} & a_{21} \\ a_{12} & a_{21} & a_{21} \\ a_{13} & a_{21} & a_{21} \end{pmatrix}$$

$$A := \begin{pmatrix} b_{11} & b_{12} & b_{22} \\ b_{21} & b_{22} & b_{22} \\ b_{21} & b_{22} & b_{22} \end{pmatrix}$$

$$E = \begin{pmatrix} b_{11} & b_{12} & b_{22} \\ b_{21} & b_{22} & b_{22} \\ b_{22} & b_{22} & b_{22} \end{pmatrix}$$

$$E = \begin{pmatrix} b_{11} & b_{12} & b_{22} \\ b_{21} & b_{22} & b_{22} \\ b_{22} & b_{22} & b_{22} \end{pmatrix}$$

$$E = \begin{pmatrix} b_{11} & b_{12} & b_{22} \\ b_{22} & b_{22} & b_{22} \\ b_{22} & b_{22} & b_{22} \\ b_{22} & b_{22} & b_{22} \\ b_{23} & b_{22} & b_{22} \\ b_{23} & b_{23} & b_{23} \\ b_{23} & b_{23} & b_{23} \\ b_{23} & b_{23} & b_{23} \\ b_{24} & b_{24} & b_{24} \\ b_{25} & b_{25} & b_{25} \\ b_{25} & b_{25$$

F.20 Karl CO Muna

The OD Olto Fritz

Burta

(

Nad Def " int (x2, x4) + R2R3. Nad Def. 10" int (x1, x4) & R1 (2227). Alor u e P, (R2R7). 2": Aufgabe in moodh. Ben. Sats (luns: Variate): $[2,2] \quad (2,2) \quad R_3 = 2 \quad (R_1 R_7)$ ⊆ ": Su (4,1/4) ∈ (R, R2) R3 ⊆ M, x M4. Nach Def. " o" et. ein x3 € 173 mit (x1, x2) = R1R2 und (x2, x4) = R2. Nach Def. " of ex. ein x2 & M2 mut (x1, x2) c R2, ud (x2, x3) + R2. Nach Def " or (x2, x4) + R2R3. Nad Def. (0" int (x1, x4) 6 R1 (2, R7). . 2: Aufgabe in moodh.