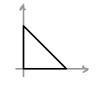
$$\omega_{0} = \{ \vec{y}_{i} \}_{i=1}^{m+1}, \vec{y}_{m+1} = \vec{0}, \vec{y}_{i} = \{ \vec{y}_{i} \}_{i=1}^{m} \}$$

$$15/4/21$$

$$e_0 = \left\{ \vec{y} = \sum_{i=1}^{m+1} y_i \vec{z}_i, \vec{z}_i \geq 0, \sum_{i=1}^{m+1} \vec{z}_i = 1 \right\} - \text{KAHOHUYECKULT CUMITAEKC}$$



$$\underline{p} = \sup_{B \in \mathcal{E}} d_B$$
, $\overline{p} = \inf_{B > \mathcal{E}_0} d_B$



SIUS APPUHIO- SKBUBANEHTHUM, ecun

$$F: \mathbb{R}^m \longrightarrow \mathbb{R}^m, \quad \vec{x} = F(\vec{y}) = G\vec{y} + \vec{b}, \quad G \in M_m(\mathbb{R}), \quad \det G \neq 0$$

$$u \quad \forall \vec{y} \in S_1, \quad \vec{x} = F(\vec{y}) \in S_2, \quad u \quad \forall \vec{x} \in S_2, \quad \vec{y} = F^{-1}(\vec{x}) \in S_1$$

Теорена об арфиниой эквив-ости

T.e.
$$\exists F_e(\vec{y}) = G_e \vec{y} + \overline{G}_e : ||G_e|| \leq \frac{\overline{h}_e}{\underline{p}}, ||G_e^{-1}|| \leq \frac{\overline{p}}{\underline{h}_e}$$

1-во Конструктивно построим Се и ве.

$$\omega_e = \sqrt{\frac{1}{x_i}} \int_{1}^{m+1} \omega_o = \sqrt{\frac{1}{y_i}} \int_{1}^{m+1} \omega_o$$

$$\vec{x}_i = G_e \vec{y}_i + \vec{b}_e$$
, $i = \vec{3}, \vec{m} + \vec{3}$ => $\vec{x}_{m+3} = \vec{b}_e$

$$G_{e} \overrightarrow{y_{i}} = \begin{bmatrix} g_{1i} \\ \vdots \\ g_{mi} \end{bmatrix} = \overrightarrow{g_{i}} = \overrightarrow{x_{i}} - \overrightarrow{x_{m+1}}$$

$$G_{e} = \begin{pmatrix} \times_{1,1} - \times_{1,m+1} & \cdots & \times_{1,m} - \times_{1,m+1} \\ \vdots & \ddots & \vdots \\ \times_{m,1} - \times_{m,m+1} & \cdots & \times_{m,m} - \times_{m,m+1} \end{pmatrix} \in \mathcal{M}_{(m+1)} \left(\mathbb{R} \right)$$

$$\widetilde{G}_{e} := \left(\frac{0 \cdot \cdot \cdot 0}{G_{e}}\right)^{1} \Rightarrow \left| \det \widetilde{G}_{e} \right| = \left| \det G_{e} \right|$$

$$Q_{e} := \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 1 & 1 & 0 \end{pmatrix} = \begin{pmatrix} E_{nm} & 0 \\ 1 & 1 & 0 \\ 1 & 1 & 0 \end{pmatrix} \in M_{(MU)}(\mathbb{R}) , \text{ det } Q_{e} = 1$$

$$G_{e}Q_{e} = X_{e}^{T} \quad \text{(crequesions to tok cryosum)}$$

$$|\det G_{e}| = |\det G_{e}| = |\det G_{e}| = |\det G_{e}| = |\det G_{e}Q_{e}|$$

$$= |\det X_{e}^{T}| = |\det X_{e}| \neq 0$$

$$T_{a} \quad \mathring{e} \neq \emptyset$$

$$J_{e} \in O_{e} \Rightarrow J_{e} = \int_{i=1}^{n_{1}} J_{i} J$$

<u>Banezarue</u> $\|G_e\| \leq \frac{h}{p}$. A $\|G_e^{-1}\| \leq \frac{\overline{p}6\overline{v}}{h}$, Tyt headx kbazuper

Konerture grementin

TERM - zamknytoe unoxectbo

MMM BLE B CUYX MICATO & 2 200 KOKEZIO DE KE OYGY

 $P^{(2)}(x,y) = a_0 + a_1 x + a_2 y + a_3 x^2 + a_4 xy + a_5 y^2 \in P_6^{(2)}$

 $P^{(2)}(x,y) = a_0 + a_1 x + a_2 y + a_4 x y \in P_4^{(2)}$

 $P^{(2)}(x,y) = a_0 + a_3x^2 + a_4xy + a_5y^2 \in P_y^{(2)}$

Это все шнейтиче прва

Мы будем рассматривать мнейние фил.

lligi - mu. q-ans Pr Boë & yoras on boë crép Leura chacu.

U = W + T

Mullia (kom-y or cmep)

DOK- 80.

« consel userel «

 $d_1 = \dots = d_{3-1} = d_{3+1} = \dots = d_{m+1} = 0$ $d_3 = 1$

 $P_i \in P_n^{(e)}$ li $(P_i) = di$ li $(P_i) = \delta i$

l, (P;)=0

P3-2 (P3)=0

()(P)=1

(P3)=0

lm+(P)=0

(Cross