Unlapraviou us gripocija katu Dy V-17 may F; U = V; 4 E Kom V Koslane, re U e 1-unbapuoura, onco Hueu Yaleu The HACF Vi-Ker (4-).id) e 4- wich. organ. · Ker r, In r compo co r-und.) le CC V, = {CB 30 1 4 0 10 9 VEV, (=> (Y-1id)(v1=8 &> 4(v)=1V) he e CC V, = 409

The 4-confort citerator - Junto (show N=n) gi; p(gi/=]; gi zn i=1,-,n Ju- Jone (= CB); Vi= el(gi) $V = \bigoplus_{i=1}^{n} V_{i}$ Tp. en & - Some V; en - Some U = V (K=4) 9 (-Han V', U - 9 - unde. 3 as. U - 9 - unde. 9/u: U -> U, VuEU 9/u(u) = 4(u) Ylu E Ham U

Eliconyola ajocpanata Dop. V-KMATT way F=R e elsemystes moranato (EII), orco e gétarmono aconoquo mon slegene (.,.): $(,):V_{x}V\longrightarrow \mathbb{R}$ $(V_1, V_2) \longrightarrow (V_1, V_2)$ uppegenaglaika ac. Ip. har Vy a V2 n ygobn-lopoba claicturi

1)
$$\forall v'_1, v''_1, v_2 \in V$$

 $(v'_1 + v''_1, v_2) = (v'_1, v_2) + (v''_1, v_2)$

$$(\lambda V_1, V_2) = \lambda (V_1, V_2)$$

$$(V_1, V_2) = (V_2, V_1)$$

Cb-Co 1) HU, V', V" EV $(V_1, V_2 + V_2'') = (V_1, V_2') + (V_1, V_2'') \ (= 1,3)$ 2/ 40, 02 EV 5 H J E F $(V_1, \lambda V_2) = \lambda (V_1, V_2) \qquad (\Leftarrow 2, 3)$ 3 ad, (u, v) - TIA , to conseque sur (cl.-603) Dig, VEV IIVII = S(V,V) - gournoum um V

$$3.5 \quad 1/||V|| \ge 0 \quad , \quad ||V|| = 0 \iff V = 8$$

$$2) ||\lambda V|| = \int (\lambda U, \lambda V) = \int \lambda^{2}. (V, V) = \int \lambda^{2} \int (V, V) = ||\lambda||. ||V||$$

$$3.65 \quad 3/||k| - k_{0}||m||| \Delta \qquad ||U + V|| \le ||U|| + ||V||$$

$$V = \int_{V} (\lambda U, \lambda V) = \int_{V} (V, V) = \int_{V} (V, V) = ||\lambda||. ||V||$$

$$\frac{3\omega\delta}{\left(\sum_{i=1}^{n}\lambda_{i}e_{i},\sum_{j=1}^{n}\mu_{j}e_{j}\right)}=\sum_{i=1}^{n}\sum_{j=1}^{n}\lambda_{i}\mu_{j}\cdot\left(e_{i},e_{j}\right)$$

$$\frac{1}{i=1}\sum_{i=1}^{n}\mu_{i}e_{i}$$

$$\frac{1}{i}$$

$$\frac{1}$$

$$\frac{\left(\sum_{i=1}^{n} l_{i} l_{i}, \sum_{j=1}^{n} M_{j} l_{j}\right)}{\left(\sum_{i=1}^{n} l_{i} l_{i}\right)} = \sum_{i,j} l_{i} M_{j} (e_{i},q_{j}) = \sum_{i,j} l_{i} \alpha_{i} j M_{j} = \sum_{i,j} l_{i} M_{j} l_{i} l_{i} l_{j}$$

$$\frac{2}{3} l_{i} l_{i}, \sum_{j=1}^{n} M_{j} l_{i} l_{i} l_{j} l_{i} l_{$$

4/ E> +1 EF (py) JAJE = D = JAJE = D = J = D Zori hidi 36. li A. ly = oif en en crong, Some ou Fn $\frac{T_{f}}{1-3} = \frac{h}{V} = \frac{h}{V} \left((\lambda_{1} - \lambda_{n}), (\mu_{1} - \mu_{n}) \right) := \frac{h}{Z} \lambda_{i} \mu_{i}$ $1-3 = 0 K; \left((\lambda_{1} - \lambda_{n}), (\lambda_{1} - \lambda_{n}) \right) = \frac{h}{Z} \lambda_{i} \ge 0; = 0 \in \mathcal{A}_{i} = 0$ (=1)2) f, g ([[0,1] - NII may R (somme))

$$(f,g):=\int fgdx \qquad 1+3 \ \partial K$$

$$(f,f)-\int f^{2}(x\geq 0), =0 \ \in) f^{2}=0 \ \in) \int =0$$

$$\frac{\partial np}{\partial x} \cdot 1/ \ U \perp V - u, u \ co \ oprolonomem, one (u,u)=0$$

$$\frac{\partial np}{\partial x} \cdot 1/ \ U \perp V - u, u \ co \ oprolonomem, one (u,u)=0$$

$$\frac{\partial np}{\partial x} \cdot 1/ \ U \perp V - u, u \ co \ oprolonomem, one Vity (e,g,=0)$$

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$$\frac{\partial np}{\partial x} \cdot 1/ \ U \perp V - u, u \ oprolonomem, one Vity (e,g,=0)$$

$$\frac{\partial np}{\partial x} \cdot 1/ \ U$$

305. 1)
$$u \perp u \in u = d$$

2) $e_1 - e_n - 06$ $(u, v) = \sum_{i \neq j} \lambda_{i} \mu_{i} (e_{i}, e_{j}) = \sum_{i \neq j} \lambda_{i} \mu_{i} (e_{i}, e_{j})$
3) $e_1 - e_n - 006$ $(u, v) = \sum_{i \neq j} \lambda_{i} \mu_{i}$
9) $||u|| = 1$ $-u = equiver e_{-p}$
 $||u|| = 1$ $||u||$

The V=Rh coong. S. G. , Show Rhe DH6 Mesoy hor Sporm-letning Heren Conge (KEn= SimV) - 1H Touter Jhistic - gronour u Hi=1,-12 (lengi)= e(ti,-, ti) Bus. Vi hi + O (4-ei-AH-) Some Hallengi) =) den l(fi-fi/-i=) fi-fi-Some en l(fi-fi/)

Gn(K=n) G, sh. Some in V. Toute 705 Andn u Vi=1_A ((ane:1=1/h-hi) Cr. en-en-dome fun V. Toroba 5006 og gingen n Vi=1, n llf, -fi/= lle, ei) (fi= thill bi) D-Co wing DO K 1c-1 f; = G Heren e Repus on 14. lige 20 girc. In 141

Di ung. opegr. = John fic: - opsoz. - Hi=1_1 (G, hi/= l(G, G) Tpoder gn navogum 6-1 fic+1: - Hi=1, K fic+1 1 f; - C(finficts) = C(engents) Topan 20 5 langa: fict = e/c+1 + Z difi Monsen un ge bornegum d;

$$\frac{f_{k+1} + f_k}{f_{k+1} + f_k} = 0 = (f_{k+1} + f_k) = (f_{k+1} + f_k) + f_k = 0 \\
= (f_{k+1}, f_k) + f_k + f_k + f_k = (f_{k+1}, f_k) + f_k + f_k + f_k = 0 \\
= (f_{k+1}, f_k) + f_k = 0 \\
f_{k+1} = f_{k+1} + f_k + f_k$$

-1 tuel(fontal) (v, han) =0 6041 I fi =) (han, han)=0 = han =0 Usting. Areo Djunerone J. M. 1com Cercoryen, son bound be seven gon on AH u avangua, El SICTIENT, TO BRY1 & Alk ben Gingen Aleo Poycum DE (av 10 -- 2 horum - teampine door to NU VI Tymorove Tur - Aproove T.M. - " " vox bog vone" beresque, En Kours Drynokove begne 6-p (GC+1 n in programe. c exter)

76 Ares for the ca beenguele in aprior. , To $D-C_0 = \sum_{i=1}^{k} \lambda_i f_i = 0 \qquad (f_i, \bullet) \qquad 0 = \lambda_i (f_i, f_i) = 0$ $= \sum_{i=1}^{k} \lambda_i f_i = 0 \qquad (f_i, \bullet) \qquad 0 = \lambda_i (f_i, f_i) = 0$ 365. Gng - 05 km V; v= 27; q: EV $(v, e_j) = \lambda_j (e_j, e_j) = \lambda_j = \frac{(v, e_j)}{(e_j, e_j)}$ Arco e DH 5 }= (V, G)

Teopena un Univery en en en - opiroz. Trace 1194 - + ex11=119112 + -+ 1/9x11 Des $(Z, e_i, Z, e_j) = Z(c_i, c_j) = Z(c_i$ 11 ½ eill² Usomy form in ETT

Disp. Her Un V con ETT. Torce U = V (usomaph woo ETT), onco = J

-J 96 Hom (U,V), koesve led ka 177 (Swert) 4 (=) NU) Hu, az (-U (4(u,),4(uc)) = (u,,uz)u (4-3000slu CII) Te. U, V - KMAII my R U = V (= down U = down V 2-60 (=) / U = V = 7 U = V = 2 Smu = dmuV (6) Heren e,, on v hinty - DH 6 har U, V

Kongo Tym UM han MU V: U JV: $\Psi(\tilde{Z}\lambda_i^2 e_i) = \tilde{Z}\lambda_i^2 f_i^2$ > Ψ - runing , see was matt (Y(\frac{n}{2}\), \P(\frac{n}{2}\)) = (\frac{n}{2}\); \(\frac{n}{2}\); \(\frac{n}{2}\); \(\frac{n}{2}\); \(\frac{n}{2}\); \(\frac{n}{2}\); \(\frac{n}{2}\); \(\frac{n}{2}\); \(\frac{n}{2}\) = (\frac{n}{2}\); \(\frac{n}{2}\); \ $=\left(\frac{\gamma}{2}\lambda_{i}\lambda_{i},\frac{\gamma}{2},\frac{\gamma}{3-1},\frac{\gamma}{3},\frac{\zeta}{3}\right)=\overline{\lambda}_{i}\lambda_{i}M_{j}\left(\lambda_{i},\lambda_{j}\right)\overline{z}^{n}\overline{z}^{n}\lambda_{i}M_{i}=$ e (Z) i ci, Z m; cj), T. e. wisch CII => UM hor En