Dongnhatenho

0,= (3,1,5,4) Qz=(12,-7,4,11) Q3=(2,-3,-2,1) v= (8,-1,)+6,)+7) } e Q 30 hou crotinocth no 2 V mosse ga ce npeactable no noberte or equil d hazuil hato next hondunayure no 6-pute a1, az u az? Yeu: Uwane C-Moto 13×1 + 12×2+ 2×3= 8 | ×1-7×2-3×3=-1 ga d'age reorpégenera Cephectuma (=) $\frac{\sqrt{2}}{13} = 0$

(u neonpegenera) => \lambda=2

$$\lambda = 2$$
: 76 pcum pewernul (7 pedbo ga novamen 2)

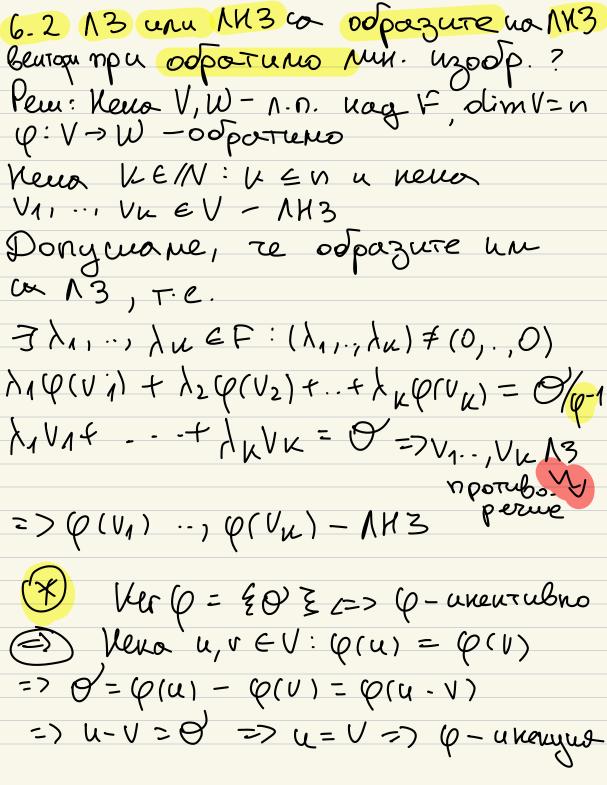
 $\begin{pmatrix} 0 & 3 & 1 & 1 & 1 & 1 & 1 & 2 & 0 & | & 2 & | & 5 & 1 & 1 & | & 2 & 0 & | & 2 & | & 5 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | & 2 & | &$

< 1412+2 | 41. [V] + [V]2

 $\Gamma \left| \frac{2u,u>}{2v,u>} \frac{2v,v>}{20} \right| \geq 0$ => |412 |V| 2- |24, V> |2 ≥0 $= |u|^2 |u|^2 \ge |\langle u, v \rangle|^2$ 141.1V1 = 124,V>1 Marko Teopus: + Odpatunie muentin modpatierne Onp- Keua V,W-n.n. Kag nonero F u q:V->W (um (pEllom(V,W)) pe opotiens men. uz., ano $\exists \psi: W \rightarrow V : \varphi - \psi = id_w, \psi. \varphi = id_v$ 30 reoperwenu zogazu c 13/11/13 gupeutno uznonzbane gedounimusia 30 13/11/13

Repubercibo na hami-Mbapa

124, V>(= |41.1 VI



@ 203 = Verp (0 = Verp) No 6-une mu me => V=0 no p-uneugue => => Ver 6 = 203 6.1 13 mm 113 ca oбразите ка 13 8-ри при обр. лин изобр. ? Donychone, re co M3 $\forall \lambda_1, \lambda_2, \lambda_u: (\lambda_1, ..., \lambda_u) \neq (0, ..., 0)$ 1, ((v1) + · · + da ((Vu) 7 0 /6.1 LIVIT .. + LI VUF O => VIMVL MAS J => (P(V1), ..., (P(VL) - 1/3) 6.3 - NOTO 6.2 (NH3 ca) 6.4 odparuma 6.5 ZOZ 6.6 aus olimV = N (Q:V-)W)=> T=N 6.7 6.8 V

* Derepunkanty 3.1 keur 0/5= 051+052 olet (A) = det (a, .., as, ..., an) = = olet (a1, .., as1 +as2) .. an) = = olet (a1,.., a51, .-an) + olet (a1,., a52, .a4)
nonumere à noce

A! - 60! A'= {a's = \as } det(A1 = olet (a1, ..., as, -- an) = = olet (a,,.., as,.., an) = = olet (a,,, \as, ..., an) = nom rulaitar = \ det(a,,., as,..,ay) = = Adet(A) 3.7 as=lan+map det(A)= olet(a1, ax, hax, ...an) + det (a1,.., Map,.,ap,..,an) = 0 =0 (ot attacuperpursus ct)

nounce 02,00 (4) Agrokrupavo Aji= (-1)+ >ji T- mal det A = aj1 Aj1+aj2 Aj2+..+ajn Ajn D-60: mare, re aj = (aj1, ajz, ..., ajn)=(aj1,0,..,0)+ +(aj2,0...0)+(0,0, ..,ajn) Da nonother $\chi_1 = (\alpha_{j1}, 0, ..., 0)$ $\chi_2 = (0, \alpha_{j2}, ..., 0)$ Ku=(0,0, .., ajn) u ot nomenuperhoct det(a1, .., aj, .., an) = = det(a1,., K1+ -. + Kn, .., an)= = olet (a,,.., k, ..,.an) f .-+ det(a,.., kn,..on) = ajn Ajn t -- + ajn Ajn

ubo parbutue Q11 ... doanuubo ai1 As1 + ·-Jain