Nexyus 10 01.12.2026. XCNY - upog Ensesue $(2)\begin{vmatrix} \alpha_{11}x_1 + - + \alpha_{1n}x_n = 0\\ - - - - \\ \alpha_{1n}x_1 + - - + \alpha_{1n}x_n = 0 \end{vmatrix}$ 0=(0, ,0)GF e peux ra(2) 3) (2) e Buscara Orbsuleruna 16. 15 persenussa na XCAYR) } < V=F" Def. Barn Jarno na $U \in F^n$, U: |Q)napuzour opyrfarientanna cuerenta or
peyenia na $X CAY(2) \rightarrow dCP$ na XCAY. 3at. And V=F"n.uples nog r. uske F. & U = V mare se upega tabling U=e(as, are) um U! / xeny aieV Hera ~ (A) = 2. Ano 2=17=41 (=> det A \$0 => 3! o persence. Des Unaure det A \$0 => 3! o persence. Des Unaure personelle persona XCNY => ~2 17 preproprehen persona XCNY => ~2 17

This Hera U: /XONY(2) U & (A)= & ED.

AX=0 U = V=F" Poraba dem u=n-e. y So: 11 ==0 => A=0 => V: |0x=0 =7 dou U = dou V = 17-0=17. 2) 7=17 (=) 7=n=m(=) defA +0 (=) 10 eF (=)

SALI - 10 (=) 1 x=0 {ob; | Ex=0 (=> {o}; | x=0 u perane x=0 | x=0 u per (desuc) du los=n-e=n-n=0. 3) 02° = 17, TR U: /AX=0, U < V че(A) И б.0,0. морен да приемем, ге (2) Е>

C1 = (S11)S121 ..., Ste, 1, 0, ..., 0) C2 = (S21, S22, ..., S20 0, 1, ..., 0) Cn-z = (Snee, Suze, ~, Suze 0,0, ~, 1)

donne ka kpanep = non Use novateure { Gis, no e of CP, ne e Sauce na U=> don'U= n-E. 1) { G: } "-2 COX AM CMA ED | 01-1 (UZ) x (M2) E) ~ (C1,-, Cur) = N-E; 2) Hexa CEU => C= (S1, S2, ..., SE, SCHI, e upour bonno peux na U; Ax=0. Kexa C= Sets Ca+ - + Su Care & CL C'=(S,,S2,...,Se,Sall Sal ..., Sh)=C => + cel (c1,.., Cn-z) => \lightarrow \li

U: | Ax=0

Cn: Kexa e gazena CNY /AX=6 $\operatorname{re}(A) = \operatorname{re}(\overline{A}) \leq n$ u rura oco e едно конпреть решения ка СЛУ, Те Asco = 6. Toraba bazo pensesace ra CAY /Ax= & una buga a= 20+219+29+ + 2m= Conz 1, Eggs {G}, " a dCP na XCMy /Ax=0, a As.., Anz EF. Der: Hera S.O. a XIII, ~, Xn -ches. Keush U naupunep X241 = X242 = - = X4=1 => \$14 =) $X_1, x_1, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_3 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, x_2, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_2, X_3 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_2, X_3 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_1, X_2 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_2, X_3 => X_0 = (X_1, X_2, -1, X_0) \in$ $X_3 == (X_1, X_2, -1, X_0) \in$ $X_4 == (X_1, X_1, -1, X_0) \in$ $X_4 == (X_1, X_1,$ Hera & e egrico upanhorno pellerus

flera |Añe=6 =>
The |Añe=6 =>
U or upegracoa Th =>
U: |A(X-X0)=0 dom U=n-t u rena
ga usoepeu egra open Zo

Hera {e1, 2~, a-c g-Sarue ra U => + peus na XCM, Te + berog a U 3! 24-20-6F: De-DG=2, G+ +2 m2 Com =) [5c = 2co + 21C1++2uz Cuz] _ The Baxo noguplo W = V=F" e upoco-pancolo or penjesny na nogrospenja W: XCMY c nembersus. Ex=0 Dos day W= &= n. 1) down W= 2=0 to W={0} to {0}1 | x=0 2) domW= 8= 11 (=) W= V = W=V: 10 ==0. 3) 02 dimW=221, re W2V4 nexa by be y be ca etasuc na W=l(by-be) u ga copaga bouce snew XCNS stem 62=(64, 612, -, 611), 62=(64, 622, -, 645), ---bz=(bu, bee, ~, 6217)

U: b21 X1 + b12 X2 + + b10 X4 = 0 | Bx=0 be1 x1 + be2 x2 + + ben X4 = 0 ~ (B)= ~ = 1/4 = 7 dow" = 17-2 U 3a U unamera UDW=V. Hoco as, n, and ga ca egua of CP new U'. | Bx=0, 10 lay, bz, -, bz, ay, -, anz ca Da parraegane caegnara XCNS; W: | a11 x1 + a12 x2 + + anx n = 0 W: | a21 x1 + a22 x2 + + 434 xn = 0 Axo dura X1 + aura X2+ - + duran Xn =0 2-4=(A)2 We nowarence WEW'n down= = dcmW = n-(n-z)=Z => W=W!

U' Box = 0 u WilAx = 0 u ga pazinegane uppare un parties $b_{11} \alpha_{11} + \dots + b_{1n} \alpha_{1n} = 0$ $x_1 \qquad x_n \qquad x_n$ $b_1 = (b_{11}, -, b_{1N}) \in W \Rightarrow e pers 2ca$ $W': |A \times = 0$ Juano rumo a upobepela, re bi-sbi
crujo ca peus na W': /Axo => W= e(by -be) = W' u dow W = dow W'= T => W= W' W! Ax=0. 3a5: U \ V us gla naruna U=l(al, ax) um U: /Cx=0

HAROPUTEN 3 a nasupasa na disuas na U+W u UNW na U=V, W=V 3 ag! Hera V e n. uplo roag z. wone F, USV, WSV. 1) U=e(a1,-,a2); 2) U:/(1) W: (2) W= elbers) 3) $U = \ell(\alpha_{2}, \alpha_{2})$; Y) U: |(1). $W = \ell(b_{1}, mb_{5})$ W: |(2)Да се камерет базиси на ИНИ и ИЛИ. Pay: I) Baro or usyuplana Un W gace zagagasi un ploura bonnossus reazura, ze $U=\ell(a_1,a_k)=\ell(a_1,a_2)$, dem U=t U:|(1)W= e(61,65)= e(61,-,6m), don W=14 W: (2)

II) Easur na U+W e egra MNMSD why currenava a_i' a_i

II) Basuc ka UNW e egsu ACP ka XCMY: UNW: (1) u neka de, den on de e aCP UNW: (2) dem UNW=2.

TV) Npoleepka:

don(U+W) = dign U + dru W - dign(U) W) P = t + u - 2re e 175 pecobo.

Пиневии изобразывание Hexa V u V' ca fle men upla nag zume F. Hera 915V->V' e madparance {a -> b=5(a) e v kon V'. Def. Konsbaugte S e nuscabno uno faspenas ano conna cyba onepayume "+" benoops u "." na benoop us cranap b flere n. upla V.V. The axo upanton na nundina roudinages 21 9+- +2 de na berognoe { dis, & b V ce uniqueya upe y la mindina recuaina usus na odpanice na som by Lylastik & V' OGC ODVJUDE KREGTU 21,., AK (=) S(219+-+220x)=2,5(01)+25(02)++25(02) 305. Ha, & EV => 4 (a+c) = 9(a) +9(c) FACF => 8(Aa) = 28(a) (=>)
8 e nux. usoofasperuse: V->V'

Cn. Areo 9: V->V' e muse usagons unames a ca 6 cuna enegruore plas 11 8(Q) = Q,; 2) HaeV, 9(-a) = -9(a); 3) and {bumbs} A3cma by b V, To { 4 (bs) 1-1, 4 (br)} ca cougo Bona 6/1 \$601 Albit + 25 b = a 119. => 9 (2,6+ - +256)=21,9(4)++25(4)
=> def {5(6)) = 21,5 cma, 60,7 e myrebs ; $\mathcal{A}^{(4)}_{0}$: $\{ \begin{matrix} V \rightarrow V' \\ \alpha \rightarrow \emptyset \end{matrix}$ e ugenouver une ; toppedens voodparponue 2) &! {V=V

915V-9V' (a-) 6-5(a) S(2, a, ++ 2, a,)=2, 5(a)+ ++ +2, 5(a,) Hau (V,V') = { 9! V > V' | 5- NUSS, Ugoefford } У-лим мобр от V в V' E> У е хомогор Анут ка п. прво V в л. прво V'. 9: {V -> V 9 - numerous outpages Home V = { 4! V=V / 5- numet no }. Mounep: 1) 10-1.11. ; Ev-1. onp; 2) V=F" -> V'=F" , W≥N
g ∈ How (V, V') Cx 9: (V -> V' { (as, ..., du) -> (as, ..., au, 0, ..., 0) 3/ V-> V= F[x] - juneon onegosop d: 2 f(x) -> f'(x)

The Hexa V u V' ca ple a upla kay za I u don V= 1120. Hera es, in la l'agric ra V u hera W4, We, y Wn ca upousboases ma Sport beroogn or W. Torala I! a usade 9! {\li = Wi, i=In) The Slail=Ws 260:]:) 9: [V->V' (a->4(a):=2, W,+~=2, W=w y(a)= 219(4)+ +2ny(a)= 21 W1+2W2+ 1 y(216+-+2ny(a))

1 y(216+-+2ny(a))

U 9- ruse used p e guperono ce

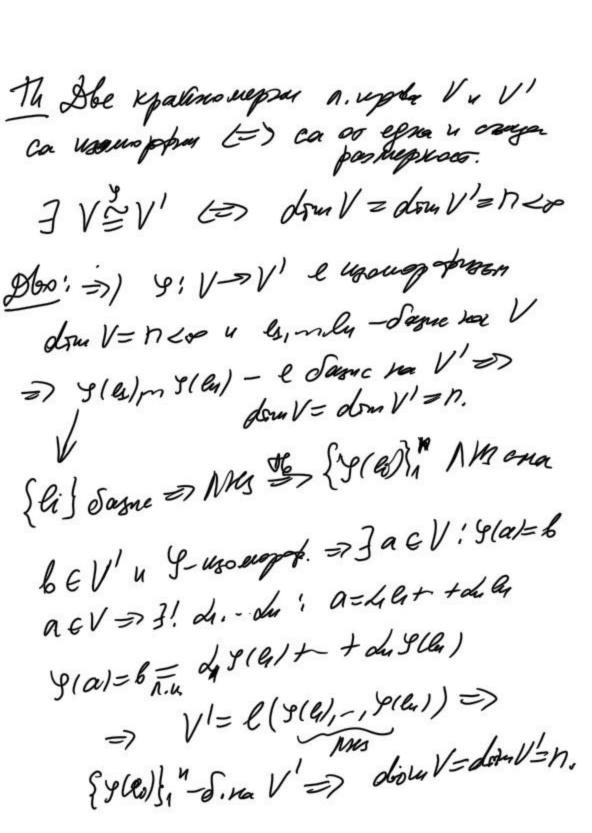
9(li)= Wz 4 4(li)=Wi, s=1,4 + a & V 9(a) = 2,9(4)+ ... + 2,9(ly) = 2, W1 + +24W2 = 2,4(4) = 4 (4) = 4 (4) = 4 (4) = 4 (4)

Def. Hexa 9:50-> V' e usafrax. Konsbauere y e your ptron uly Vy V'

u orandoue V = V' (V = V), are

118 - nun unaparenne 34" =

2) y - Suerisus 3ad. V=V'=> V'=V' a=6 16. Aro 9: 5V->V' e yeurs from u {ais, e Amorra 6V => { 8/a;)} * e 1119 ang lo V. Des: {ai}, ca Mis & V to ga pazuragame 218(ag) + - +2x8(ax)= (V), 7:6F, 5=4x g(2194 + 22 02 = 00 MB 2000 = 5/00)



Odpowo, and down V = down V' = n <0 u nexa limbi-dixa V u l'i, mbi-dhea!! Toraba 3! 8 e Han (V,V'): 5(Q:)=Qo' vel,n. g-unerys : a & V a = Lylyt + duly CeV C= poly the a#c => 5(a) = 25(g)++du5(e)=2, g+++du6" 5(c) = 6,5(g)++fa,5(e)=4, g+++fa,e" => 5(a) +5(c) S-cooperycy: + beV=> b= 8,4+++ the= = 8,8(9)+ + 8,5(4)= 8(8,4++6,4) Jd=814+ +8, en 6V: 5(d)=6 00V! => S-Swerryng + 1. m => V=V!

Aspet: C towner do remobelemen 30 baro druxa eco ruano y, 3! muepo NUX. upbo F 17 = {a=(a, may) | avery. Axo V-upourbonno muepro n. upo F u ga indepen Sague ka V: en sli -olas Toraba y: { ! = (0,0...21, Q. 0) = 1, m Uzousphison uly V=F". Ou an redpurse megna rocka she Usouopopsin h-nepsus nuse upba orensame sa papaznamining The + bepus ano obne le V (=> Reprodent obser 6V'. -