9 E Mon (u, V); Kerl; In T; 1(4), r(4) TPD: r(4) + 8/4/= Lm U 4271. (1,0,0) Oznorend: 1) $A \in F_m \times n$ $M_A := \frac{1}{4} \times G_{n \times 1} / A_{n \times 2} = \binom{0}{6} G_{n \times 1} / \binom{0}{6} G_{n \times$ YA E Kam (Fnx, Fmx): YXEFnxn YA(X)=AX 305. La « NU. Mpslepet! Barragopsitie Soma Nu Fh v Fm (#)

3ng. Ken PA = UA < Fn (Fnr) 305. 4 KHOM (U,V); an en - Some he U Im 9= ((4(4), -, 4(2)) Aco 4 e UM, 70 1/9/1- 1/9/- Some 100/ Tl. Y C-Mo-(u, V/e anoga-ubro & Ker Y = 484 9 D. Co u, u, Eu 4 (u,1 = 4(u) (=) 4 (u,-u2) = 8, (=) u, -a, c/cer4 On E Ken U

3us. 4 - Kan(U,V) enen-Some no U; fin hand vanc na V $U \cong F^{n} (\cong F_{n \times 1}) \cdot V \cong F^{m} = F_{n \times 1} \cong F_{m \times 1}$ N=2/2:e2+3(>,m>n);(), 2=1) A=Mef(4/; YACHO-(Fn,Fm). e'- corny. Some me F (Fixn) mt (4) = A

4 I ISSE PA FM gnorponen e nongvirlen, T.C. YOY = YOY $(4 - 4)(u) = \sum_{i=1}^{n} \lambda_{i} e_{i}' + (u) = V = \sum_{i=1}^{m} \mu_{i} h_{i}' + (\sum_{i=1}^{n} \lambda_{i} e_{i}' + \sum_{i=1}^{n} \mu_{i} h_{i}') + (\sum_{i=1}^{n} \mu_{i} h_{i}') + (\sum_{i=1}^$ (PAOY,)(U)=PA(Y,(U))=PA(X)=AX=M · 4/ Kery : Kery -> UA EF" - UM wa Kere c UA 72/Iny; Imy - Imy - UM ha Imy a Imy,

Dop. Been Jose en Up ce verpuen pgregovernen anciena penerne (&CP/ 3ud: Keng ZUA, Im 9 Z Im PA 300. Im 1/A = C (4/e/), -, e/e/1) = (e/ en - dorn cres e' tea Fn) = l (csers. un A) Erm 3m. A (i) xi = iw cs.m. A

Gr. (or TPD) AEFmxn =1 cr (A) + dry UA = n Cr. H & cP wow n-cr(A/ beneryon Chorication per opportunie 14 Te y EHm (u,V/', Sim U = Show V= N gon en; from In - Sommen ball al Toute crequie Kopyene av substenensi.

1/4-00 journes (Espe un Es 4 e Surie ulus/ 2) A = Mo (41 - 05 porma 3) 1(e,1, -, 1(e,1- donc 60 V 4) Im Y = V (=> Y e cropers.) 51 Ker e = 40 / (& le munitions) 6) & (4) = 0 7/ r(4)=n

D-Co: $1 \iff 2$ someon $A^{-1} = M_{\delta}^{\ell}(\{\ell^{-1}\}); \quad \ell^{-1} = \phi_{\delta}^{\ell}(A^{-1}) \int_{1 \iff 2 \iff 3}^{1 \iff 3 \iff 4} (A^{-1}) \int_{1 \iff 2 \iff 3}^{1 \iff 3 \iff 4} (A^{-1}) \int_{1 \iff 2 \iff 3}^{1 \iff 3 \iff 4} (A^{-1}) \int_{1 \iff 3 \iff 4}^{1 \iff 3 \iff 4} (A^{-1}) \int_{1 \iff 3 \iff 4}^{1 \iff 3 \iff 4} (A^{-1}) \int_{1 \iff 3 \iff 4}^{1 \iff 3 \iff 4} (A^{-1}) \int_{1 \iff 3 \iff 4}^{1 \iff 4} (A^{-1}) \int_{1 \iff 4}^$ 1 cm e, re 4 es 7 u 5 es 6 / 4 es 5 ces 6 es 7 0 T 20 T PD 21 6 (20 4 40 1 2) 4 v 5 27 H com enchlon. 305. U=V->10 (e=8)

Burs. A E Fmxn, 13 E Fmxk Topcerum La XEFnrK: AX=13 - peopuro (Acoron 30 XA=13) 3ud. TEMm(F) - odpornou $AX = B \iff (TA)X = (TB) (- T' and)$ 3 and A energy.

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Jud. Ett - comme to 2p. grun. por gry c en ens exargos av pegole; Known Et so crond. 3.5. A C Fmrn; PA C Ham (F", F") OF good be TPD; eingkjektinen Ever go (Dome la Ker l'A Some la Fⁿ) In la= l(4(h), -, 4(h)) = l(4(h), -, 4(h)) Forbore

(=) AH)

((4), - ((Cre)) c f, - of m-ce go some a Fm Dogonbone

Touten la e equi-estermo MU, Kvero estapor Smer Gon Col berignie 4(9), 4(54) tim tom-16. By Team Somen 9/4 use aver may. $R = \left(\frac{E_{\mathbb{K}} \mid 0}{0 \mid 0}\right) = \left(\begin{array}{c} 1 & 0 \\ 0 & 0 \end{array}\right)$ 5 - mg. 1- sp. a grag. S. kar F" wen Pa(e,1, - Pa(e,2), fi, -, fm-10 T - very. on op. a- Gory. S. her & orm Gne R = S-IAT ; A = SRT-1

Donewsone

JICEN

JUSTE JUSTEMM(F) n JSEMM(F) of poline, $\exists R \in F_{m \times n}: R = \left(\frac{E_{R}}{\partial |\partial|}\right) \cup A = SRT'$ $\frac{G_{n}}{\partial |\partial|} + \frac{F_{n}}{\partial |\partial|} = 1 \exists T, S \in M_{n}(F) - of poline = n$ FREM_(F/: R=(E)) ~ A = SRT-1 Uniepoperano un En 9 CHam(U,V) que Seme mu M; fin fin - Some har V A= Not (4)

1) A, - rivip, tronger-u a A vero core posserumen

2 - ju per 1) A, -may. iTm. i A kun come posm. i nj der. e-Somers bur U oron. - e eyes its j

$$T_{i}' = T_{e'}^{f} = \begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$$

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2') is even for
$$-1$$
 A_{2}^{1}

(more in in cr. ch)

 $e'' - \delta \sigma m = e_{11} - \lambda e_{21} - \epsilon_{12}$
 $T_{2}^{\prime} = T_{e}^{\prime\prime\prime} = \begin{pmatrix} 1 & 0 \\ 0 & \lambda_{11} \end{pmatrix}$
 $A_{2}^{\prime\prime} = A T_{2}^{\prime\prime}$

3) The solution in prejection of the property $A_{3}^{\prime\prime\prime} = A T_{2}^{\prime\prime\prime}$
 $T_{3} = T_{6}^{\prime\prime\prime} = \begin{pmatrix} 1 & \lambda_{11} \\ \lambda_{11} & \lambda_{12} \\ \lambda_{11} & \lambda_{12} \end{pmatrix}$
 $A_{3}^{\prime\prime\prime} = A T_{2}^{\prime\prime\prime}$
 $A_{4}^{\prime\prime\prime} = A T_{2}^{\prime\prime\prime}$
 $A_{5}^{\prime\prime\prime} = A T_{2}^{\prime\prime\prime}$
 $A_{7}^{\prime\prime\prime} = A T_{2}^{\prime\prime\prime}$
 $A_{7}^$

3'/ Tomb. in cr. ymu. c / won ju cr. - A3 e''' - Somen e, ___ e, + lei, _ en $T_3 = T_2 = \begin{pmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix}$ $A_3 = A T_3$