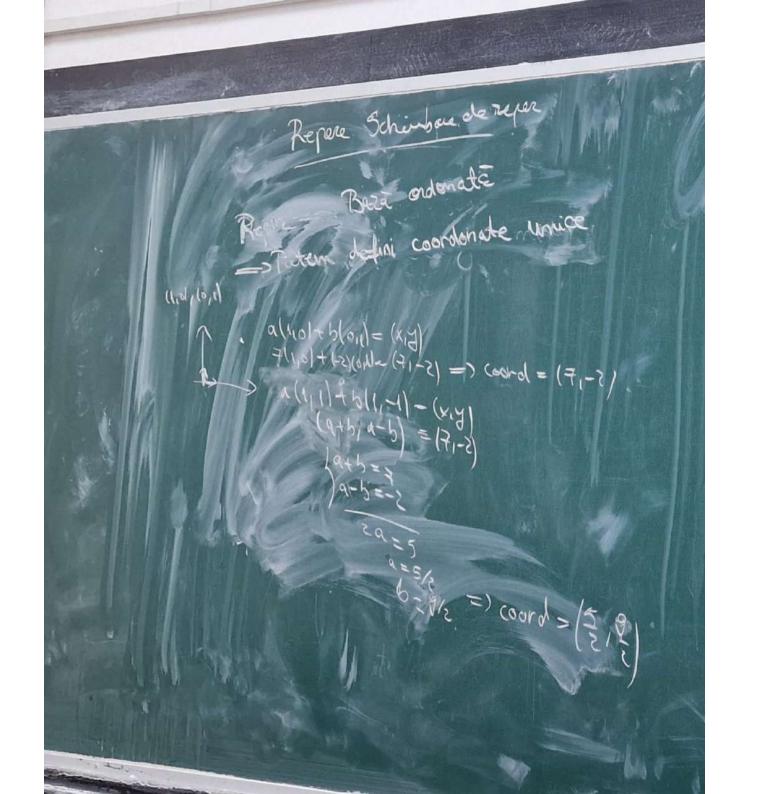


5-4(11/10)(11-11-1),(2,0,-1)3,, 6) extragen din 5 um 5, 5 Li maximel 5) extragen de o baza dut A=1+(-2)+0-(0+0-1)=0=> ngA+3=>5 SLD det (11)=-1-1=-2 to=> rgB=2===>6(1,1,0),(1,-1,-1) ==5, 8B-5(1,0,0), (0,1,10), (0,0,1)? paza canonica det C=-1-1=0=>19(=3=>510)(10)) SLi (and(510)(10,0))=3=dimple)



+ xeV 3! (x1, x2,..., xn) Elka at x= x1e, + x2ez+... + xnen Modificarea coordonatelon la schiubarea de reper R=4e1,...,en3-+-> R'-4e11...,en3 X=A X' X= coord initiale (m naport cu ))
A= matricea de schimbare a reperulu
X= word finale (m naport cu Z) => A-1X=X

Po= he,=(1,0) ez=loll nep. Éanarie (R21+10) 1R R= 1-(2,1), ez = (3,0)? hi x in rep in to >i R A=2 maxim = R1 SLI -> } refur 110/46(011)=) a=2 6=1 (3,0)= a=3, b=0

2x1+3x2=1 (=) (2,-1) coord. In nupot on D!

120=40=1, ez=X1 ez=X28 - represención 71=4-1+2X+3x2, X-x2, X-2x2 21-4(-1,2,3), (0,1,-1), (0,1,-2)? dx 15-1+0-37913-3=maxin=) Ry Sli =) Ry Rym

(and 24=3=dimpres =) Ry Rym 9-5 - (-1) - (-1) + 0 (-1) = 3-5 + 0-(-1) | 3-1 | 51 | +5x+2x2 = dirtp x+cx3 => (-153) conf. 67-75 => (011-1) cond

A= 
$$\begin{bmatrix} 1 & 0 & 0 \\ 3 & -1 & -1 \\ 2 & 1 & -1 \\ 3 & -1 & -2 \end{bmatrix}$$

(1)  $X = AX' = 3 \begin{bmatrix} -1 & 0 & 0 \\ -1 & -1 & -2 \\ 3 & -1 & -2 \end{bmatrix} \begin{bmatrix} x_1^1 \\ x_2^1 \end{bmatrix} = \begin{bmatrix} -x_1^1 \\ 2x_1^1 + x_1^1 + x_2^1 \\ 3x_1^1 + x_2^1 + 2x_3^1 \end{bmatrix} = \begin{bmatrix} -x_1^1 \\ 2x_1^1 + x_2^1 + x_2^1 \\ 2x_1^1 + x_2^1 + 2x_3^1 \end{bmatrix} = \begin{bmatrix} -x_1^1 \\ 3x_1^1 + x_2^1 + 2x_3^1 \end{bmatrix} = \begin{bmatrix} -x_1^1 \\ -x_2^1 \\ -x_3^1 \end{bmatrix} = \begin{bmatrix} -x_1^1 \\ -x_2^1 \end{bmatrix} = \begin{bmatrix} -x_1^1 \\ -x_1^1 \end{bmatrix} = \begin{bmatrix} -x_1^1 \\$ 

Operation ou subspetil nectoriale <1/10/2> = 1/1+1/2 = 1 xel | xelitlz, liel, bels D. VI, 1/2 CV Gulgatii waterok. D /= /(1,2),(-2,5),(1,2)} 12 = 4(1,2),(4,2) (=) se pod sepode. @ Teorema Grossmann (Vitie) IK & rectains duck (N+Ve)= duck Vit duck? - die 101 1100

3 Suna directa Vielle daca VinVz=40v} I Sulspotial comprese MU é unic. VIEV salesp rect. dir 1KV = n = dir 1KV => V=V. ding 5(A) = n - 19 (A) die subspatiali spatial to mat sist (P3, T10) TR ) 1= 1x=P7 | 1241+X2=0 a) bæä in VI a la VI a 7 R3= V D VIII
b) sudep complementer VII a la VI a 7 R3= V D VIII
c) descentimen x = 11112) in report a R5= VID VIII MA= (201) 8 det (21) = -1+0=>rgA=2 duy = n-19A=3-2=1 1/2 - 2x 1= (-1/3) = 8x3 | -> V= 5 (-1/3, 18x3, 1x3) | X3 ∈ P= 5 = 5 x3 (-1/2, 1) | x3 ∈ P= 5 B= (1) 13B=1 maxim = R/SI; DRIBara

Aplican T Grossmann = ding R3 = ding V'+dung V'' - ding (V'nV")

=> dings V" = 2 W PC=V' DV". han 1"=</r> dut = (= 100) = -4 +0 => Ry C=3 maximal Sli => 210211 baza TAR3

card(21021)=3=ding Fi V"= < 5(0,0,0) (0,0,1? > 2" x=(1,1,2)=a(+1,3,11+b(0,1,0)+c(0,0,1)=(-ha,8a+b,a+c) C) R= 31/13"= 3(-4,812)/(0,1,0)/(0,0)//  $\frac{1-ha-1}{1+ba+b-1} = \frac{1}{ba+b-1} = \frac{1}{ba+b-1}$ 7=3(0,10)+3(0,0)=(0,3,5)=V" X= m+V= [1] [12] E 123