$$R_{1} = \begin{cases} 1 & 1 & 1 & 2 \\ 1 & 0 & 0 \\ 1 & 2 & 2 & 2 \\ 2 & 1 & 3 \\ 2 & 1 & 3 \\ 2 & 1 & 3 \\ 3 & 1 & 2 \\ 3 & 1 & 2 \\ 3 & 1 & 2 \\ 4 & 1 & 2 & 3$$

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Pla, -1,3) = M(= (-3, 3,3) @ & R. [x] -> R. [x], 8(p) = P a)[8]R,R, R={x2,1+x,2-x}, reper mR2[x] R'= {x, (+3x) neper m R, [x,] 6) R2[x] = Kon(910 W, pripa: R2[x]-R2[x] P+ Pr pe Ker (39 p1/1-x4) a) 3(x2) = 2x = a(x) + b(1+3x) = A = (2 - 3 3) = (2] R. R. a=2 b=0 g (1+x) = 1 = a'x + b'(1+3x) S(2-x)= (= a"x+6"(1+3x) b) Ken(9) ={p∈ 12, 2, 2} p =0 } = < 1 >> W = < 1 × , × 2 > 1,-×+3×2 = 1.1+(-1) × +3.×2 ⇒ b(1 -x -3×5) = 1 $2 \times + \times^2 = 0.1 + 2. \times + 1. \times = 3$ => P2(2x +x2) =2x+x2

9 9 A 1 = A + A + A + A al[9] Ro, Ro' Ro={En, En, En, En) reper canonies in la R En=(00); En=(00); En=(00); En=(00) Ro= (EntErstEsi, Ess) reper in Mas b) Korg, lug o) g(u) , v={(cd), c,der) a) S(E1) = Ex+ Ex = (00) + (00) = (20) (20) = 2 En+0/Ex+21+ (3]Ro,Ro' = 01 10 0.E22 3(E12) = (01) = E12+E21 3(E21)=(01)=E12+E21 S(E22) = (00) + (00) = (00) = 0. Ex+0 (E12+ E1) + etc. Deci A = - A + A = 02)

Deci A = - A + A = 02) $A = \begin{pmatrix} a & b \\ -c & d \end{pmatrix} = -\begin{pmatrix} a & c \\ b & d \end{pmatrix} = \begin{pmatrix} a = -a \\ b = -c \\ c = -b \end{pmatrix}$ = b(0 1) d=-d Kor g = < (()) > The dim: dim M2 IR = dim Ker 9 + dim lub
= 3 = 3 lus c M2 (R) subsp vect (=> lus = M5 (R)
dim lus = dim M5 (R) = 3 (=> lus = M5 (R)

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c, d e IR! V= << Ea, Eaas S(E21) = E12+E21 Matrice ansisauetrice