Seminal 8 Algobra ji Geometlie

; la = {l1,e2,e3}

? 3 Margar in R3 où [f] Ja, 12 ste diogonola

Vectori poplii. Valori poplii. Diagondisare

L & Bro (R)

f (e1) = e3

& Coy=er

f (23)=21

 $\Delta = \begin{pmatrix} 0 & 1 & 0 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{pmatrix} ; A \begin{pmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{pmatrix} f(\chi_1, \chi_2, \chi_3) = \begin{pmatrix} \chi_3 \\ \chi_2 \\ \chi_3 \end{pmatrix}$

I Pe (x) = det (A-x]3) = | 1 0 1 | - x 1 | = (1+1) | - x 1 | =

= (- \(+ \) (+ \(\)^2 - 1) = (\(\lambda + 1) (\(\lambda - 1) (\(\lambda + 1) = (- \lambda + 1) (\(\lambda - 1) \) (\(\lambda - 1) (\(\lambda - 1) \)

X1=1, m1=2

1-1, n=1

I VM= { xeR3 | AX = >X}

(A-M)3) X= (0)

 $\begin{pmatrix} -1 & 0 & 1 \\ 0 & 0 & 0 \\ 1 & 0 & -1 \end{pmatrix} X = \begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$

olin 1/2 = dim R3 - 2g A = 3 - 1= 2 = M1

(R3=VM DVM B. OVAn)

ニノ そ1=米3=) (そ1,だノだノ) V21= {x ER3(-X1+x3=0} = *1(1,0,1)+ ×2(0,1,0)

=, LR x = { (1,0,1), (0,1,0)}) SG Reger in Vx1 ji a sci (ea bonnen denomteam) VM = {x GR3 | AX = -X} = {x GR3 | [x1=x3) (A+)3) = X=(0) A+1) = (101) dir Vx= 3- eg (4+)7)=3-2=1=n2 22= < { (1,0,1)}> 56 leger in Vi sie su (-1--) =) A este oliogorolisabila Butter ca R3= 1/1 DV2 UR = QAU Bar = { (1,0,1), (0,1,0), (1,0,-1)3 (f) \(\alpha \(\alpha \) = \(\begin{array}{c} \lambda \lambda \\ \delta \lambda \lambda \lambda \\ \delta \lambda \lambda \\ \delta \lambda \lambda \lambda \lambda \\ \delta \lambda \lambda \lambda \lambda \lambda \\ \delta \lambda \lambda \lambda \lambda \lambda \\ \delta \lambda \lambda \lambda \lambda \lambda \lambda \lambda \lambda \\ \delta \lambda \lambda \lambda \lambda \lambda \\ \delta \lambda \\ \delta \lambda \lamb (1 & End (R3), x=3; x==- 2 1 3= 1 value proper 191= (-3,41), 102= (-2,1,0), 100 0 3= (-6,3,1 loca page rectori frapii colegonatoli ta LAJUROURO = A D= { 41,0,0), (0,1,0), (0,0,1)} SCi ps f(01= 1001 f (or) = 2200 P(0)=1323

(Ro -) va = {va = -3 entlez + es, vaz= 2 entez , v3 = -6 ext2 + es}

$$C = \begin{pmatrix} -3 - 2 & -6 \\ 2 & 1 & 3 \\ 1 & 0 & 1 \end{pmatrix}$$

A'= C-1A C/c; A =?

$$CA' = ACI \cdot C^{-1}$$
 $\begin{pmatrix} -3-2-6 & 100 \\ 2 & 13 & 010 \end{pmatrix}$ for collider
 $CA'C^{-1} = A$
 $\begin{pmatrix} 1 & 0 & 1 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 \end{pmatrix}$

A~=(cA'c-1) (cA'c-1) (CA'c-1) = CA'C-1

$$A^{\prime n} = \begin{pmatrix} 3^n & 0 & 0 \\ 0 & E + 1 & 0 \\ 0 & 0 & 1 & n \end{pmatrix}$$

(F30) L: R3 -> R3, f(x1=(x1-x1+x3, x1-x1+x3)

@ Kerf, Imf zi reper

1: Ke + (1,0,3)=1.

a): Ker for -> W froie Gia je v de dragel hi kert s': R3 -> R3 sineteir fota de w de alkangul lan 200