Subjecti recordiale, Septe, Coodonate multinea polimanela (4) (R) (x),+,0)/R VI = {P∈ (F3 (*) | P(0)=0} (P=P) VI = {P∈ R3 (X) | P(1)=0} V3 = {PER3[*] | P(0)=P(1)=0} (Vi C A3 (x) Vi=1,3 ment subsy. rect OBS!!!V'CV () (+ x, y eV' =) x + yeV' (=)

white (+ a E | K, + x e V' =) a x e V') (=) P, QCV1 = aP+60=V1 + a, be R = aP+60)(01=10(01+60(0)=070P+60EV1) analog pentru 12, V3

Decirati cate un rejer Ai în Vi, =1,3

SLI-Serte SLI EST XI, -, xn ES antit ... + an 2n=0

Hon, -, on EKO. C Antit ... + an 2n=0

Hon, -, on EKO. C Antit ... + an 2n=0

Honge OIK

-n-

SLD-Sate SLD(=) JX1, ZfS 10.2 Jan, - on Elk, nu toti mli aixi+ - + an X m= OV SG-BLUNCE V= (S) (=) YXEV, J X1,.., Xn ES Jon, - 1,02 € K =) 01x1+--+ + anxn=X Box - S box +, 1) S S.Li. U.A. E. Vy. rect. finit generat (writicalele sofilmotii) =) |S|= dim|KV (151= card (S) echivalente $S = \{ \chi_1, -\chi_n \} = 0.4 \times S.SLi$ |S| = n |S| = nOBS O MAN dim V=n S. borá

Definitie edeper = bara ordonata $R = \{e_1, --, e_m\}$ YXEV]! a1, --, an Elk p.i oleit .- tanon= % $A = \{1, \chi, \chi^3, \chi^3\}$ to reject coronic in $A_3[\chi]$ $A = \{1, \chi, \chi^3, \chi^3\}$ to reject coronic in $A_3[\chi]$ $A = \{1, \chi, \chi^3, \chi^3\}$ to reject coronic in $A_3[\chi]$ (00,01,000,003) - Rosedoratele lui Pin Logost au Ro (4) determinam An Agost in Vs PEU => P(0)=0 P= anx+arx2+a7x3 Multimea A1= {x, x2, x3} erle sistem S6 pertsu VI Denonstlåm ca P1 S.L.T. ant tarx + as x3=0, tx =) 01=02=12=0 => lans.(.i}=10a, lease (cd1={*, x2, x3} erte un tropel in V1=1 (olim (V1)=3) Ottelminam un radinh $P \in V_1 = P(1) = 0 = 100 + a_1 + a_1 + a_2 = 0 = 100 = 01 - 02$ $P = -a_1 - a_2 + a_3 + a_4 + a_4 = 0$

 $P = -\alpha_1 - \alpha_1 - \alpha_3 + \alpha_{12} + \alpha_{12} + \alpha_{13} + \alpha_{3} + \alpha_{3} + \alpha_{13} + \alpha_{14} + \alpha_{15} + \alpha_{15}$

Wr S. G. Odenovsteam ca De Intes. I. i.

an (4+x)+ an (-1+x2) + az (-1+x3)=0

$$\begin{array}{c}
-) \left(-\alpha 1 - o z - o z = 0\right) \\
o 1 = 0 \\
\alpha z = 0 \\
\alpha z = 0
\end{array}$$

$$=) \Omega 1 = o z = \alpha z = 0 \\
\alpha z = 0$$

=) Chr = [-1+x,-1+22,-1+x3]

Dian eta boză => (limp V = 3)

Determinan un ryer in V3 PEV3=V1 NV2

00=0 101+102+103=0=101=-200-03

=) $P = (\alpha x - \alpha 3)x + \alpha 1x^{2} + \alpha 3x^{3} = \alpha 1(-x+x^{2}) + \alpha 3(-x+x^{3})$ =1 $\sqrt{2}$ = $(-x+x^{2}, -x+x^{3}) \rightarrow S. G. Cn <math>\sqrt{3}$

Demonstrom ca R3 este S.L.I.

ar(-2+x2)+ar(-x+x3)=0=) {-2-23=0}=, Q3 56.1 Ld 7={-x+x², -x+x³} deger in U3 Ma (dimp V3 = 2) (lookdonote) C) Allati avor bonatele lui Pa = X + 2 x + 3 x 3 in Agnost an Ma Ld 1 = { x, x 2, x 3} (1,2,3)-) sunt boord lei P1 in rayof to V1 P2=1+1x2-3x2EVr, in rgoort a D2={-1+x,-1+x} 1+227-323 = a(-1+x)+b(-1+x2)+,c(-1+x3) -a-le-c+10x+lex+ex3=10=0; le=2; c=-3 =) (0,2,-3) 100 donatele P3= E+7x2-4x3 a2(-x+x2)+ a3(-x+x2)=0(x+x2)+le(x+x3) -(0-le)x+0x2+leas Rosadonatele lui es in igal a Vs

d'Determinati cate un subspatiu conflementate Vi pt. Vi,i-13 AMORE =) R3 (X)=Vi (Vi , i=1,3 OBS!!! V=U, Oh(=) (=) 1) AMARIE V=V1+V2 V1 NV2 - 200 (OV) R3(X)=4011; Q1= (x, x1, x3) V1=< {1}> R3(x)=V10/2, Qz=(-4x,-1+x2,-1+x3) (thobuse 200 fie) S.Li. (-1,1,0,0) (-1,0,1p) (-1,0,0,1)

(ind solonge times

[-1 -1 -1 (A)) $R3 = \left[-x + x^2, -x + x^3\right]$ (0,-1,1,0) (0,-1,0,1) $eg \begin{bmatrix} 0 & 0 & 0 & 1 \\ -1 & -1 & 1 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix} = 4 \text{ max} - \left[\sqrt{3} = \left(\frac{1}{2} \times , 1 \right) \right]$ la subjecti Conflorrertale

(a)
$$R_3[x] = V_1 \oplus V_2 \oplus V_2$$
 $V_2 = \langle \{1\} \rangle$
 $V_3 = \langle \{1\} \rangle$
 $V_4 = \langle \{2^2 \}^3 \}$
 $V_6 = \langle \{2^2 \}^3 \}$
 $V_6 = \langle \{2^2 \}^3 \}$

(b) $R_3(x) = U_1 \oplus U_2 \oplus U_3 \oplus U_4$
 $V_1 = \langle \{1\} \rangle_{x_1, \dots, y_{1}} = \langle \{2^2 \}^3 \}_{x_1 + 4^2 x_3 = 0} \} = S(A)$
 $\overline{A} = \begin{pmatrix} 2 & 1 & 0 & 0 \\ 1 & 0 & 4 & 0 \end{pmatrix}$
 $A \mid \text{UBecisal obstain mbyatin compliment } V' \text{Liv}$
 $A \mid \text{Usin obstain obstain mbyatin compliment } V' \text{Liv}$
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 $A \mid \text{Usin obstain obstain mbyatin mbya$

$$=) \log \left(\frac{8}{16} \right) = 3 \mod 2$$

(1)
$$\chi = \alpha(4,8,1) + b(1,0,0) + C(0,0,1)$$
, $\chi = (1,1,2)$

M

(1) $\chi = \alpha(4,8,1) + b(1,0,0) + C(0,0,1)$, $\chi = (1,1,2)$

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$$\left(N = \frac{1}{8}(-4,3,1) = (-\frac{1}{1},\frac{1}{3}); \ v = \frac{3}{2}(1,0,0) + \frac{15}{8}(0,0,1)\right)$$