Seminar 5
Scriet of in fet. de pol. cimetrice fundamentale SLAZIA3.
1 = a Di oz + le Di D3+ CD2+ d D1 D2 D3+ RD3
PasIT(1)=x2.x2y2=x4y2 (in article lexico gonfici lum 8) T(11.x4y220mm)
$\times^{\alpha_1} y^{\alpha_2} z^{\alpha_3} \longrightarrow \begin{bmatrix} \alpha_1 - \alpha_2 & \alpha_2 - \alpha_3 & \alpha_3 \\ 01 & \delta_2 & \delta_3 \end{bmatrix}$
T(1)=01020200 = 0102
Pasi cont monoamela de acelasi grad ca termenul deminant das
mai mici le xico-grafic.
(4,2,0) -> 512 - 52 (4,1,1) -> x y z m) 51 02 13 = 02 53
(4,0,2) -> 07 y=2 03 ->NU
$(3,3,0) \longrightarrow x^{5} y^{5} \longrightarrow x^{3-3} x^{3-3} x^{3-4} = x^{3}$
$ (3,2,1) \rightarrow \chi^{3} y^{2} z^{1} \Rightarrow 0^{3-2} x^{2-1} x^{3} \Rightarrow 0^{4} x^{2} x^{3} = 0$ $ (2,2,2) \rightarrow \chi^{2} y^{2} z^{2} \Rightarrow 0^{2-2} x^{2-2} x^{2} \Rightarrow 0^{2} x^{2} x^{2} \Rightarrow 0^{2} $
(2,2,2) -> x2y2 22-) 512-2 2-2 2 2
3(x, y, 21 = a. 01, 05, + 10. 01, 03 + CD3+9 or 05 05+805
a, b, c, d=.
a = acf. termonalui dominant = coeft [ ] = [1]
X 4 2 01 02 03 \$ (x, y, 2)
$X$ $Y$ $Z$ $01$ $02$ $03$ $\frac{1}{3}(x,y,z)$ $1$ $0$ $2$ $1$ $0$ $\frac{1}{3}(1,1,0)=(1-1)^2\cdot(1-0)\cdot(0-1)^2=0$
aleg convenaled
v g E v. or or gradiel
-1 -1 2 0 -3 2
$(-9)(-3)^{\frac{3}{2}}(0.02^{-3})(0.02^{-3})$

8116-27-4-27+0-9-27-0 -275192-54 A+ lac-1)+(-4).(-1)+2-27=0 1-6+4+2-27=0 Fb+d=22 2+6+9d=34; b=-4 => 3(xy, =) = 5? 02-45? 03-452+ 18018203-Pt. n=2 : x1 x2 a x2+5 x+ c=0 a=0, a,b, q & f are read distincte (=) 1 =0. 1=52-4ac 11 = x1+x2 == b / Viette 12= X1 · X2 = C 1=624ae = a2 ( 62 - 40) = a2 (012-402) DI-402 = (x++2)2-4(xx2)=(x12x2)2 1 = a2 (x1-x2)2 = 0 = x1 = x2 Ph: Natur pelinem: aux r - - + pixtao, au +o. let dace come toate rad listincte 1= 11 (xi-xj)2, xi +xj ('4j = 9(1), -- 12) 01 = - au-1 42= a4-2 131 = - an-3 it 0 ( ) took vad sunt distincte

3

-9

-

-0

-9

-

9

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@ Fre fet1=2+3-3 +2+5+17 = ZII[+] bet daca of are rad districte dona care dona. SI = - (-S) (2)-1 = 3.6 = 30 = 8 02 = 4. (2)-1 = 4.6 = 24 = 2 3= (-1).(2)-1= 10.6=60=2 0=(x-9)2(x-2/2(y-2)2 -012 D22-4 03 D3-4 D3 +18 D1 D2D3-885 A to flit) our tonte rad det 6= 6 6 6 Ø. E 3) Fizx1, x2, x3 val pol 2 x3+ 5x+6. constr. un pol. cu rad y1, y2 y3 unde:

Constr. un pol. cu rad y1, y2, y3 und a) y1 = x c'+2 L) y1 = 1 a) S1y = y1 + y2+y3 = S1x +6 S1x = 0 S2x = I

\$3 =-3

Szy = 4142 + 4143+42 43 = (x1+2) (x2+2) + (x1+2) + (x2+2) (x3+2) 2 x1x1+2x2+4 +x1.x3 +2x1 +4+x2x3 +2x3 +2x3+2x2+4 2 S 2x 112 + 4x1+4x2+4x3 = 12+ Sex+451= 12+ \frac{1}{2}

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Sag=71.42. 93 = (x(+1) (x2+1) 1x3+2)
 = (x1x2+2x1+2x2+4)(x3+2) =x1x2x3+2x1x3+7x2x3+8.53
 = x1x2x3+2x1x3 +2x2x3 +4x3 +2x1x2 +4x1+4x2+8 =
 = 23x + 2 55x + 481x + 8
= -3 + 2. 5 +4.0 +8=10
 PCY) = y3- Siy y2+Szyy - Szy = y3- 6y2+22 y210.
b) Sig= gity2+y3 = 1 + 1 + 1 +-
= (x s +1) (x 3 +1) + (x (41) (x 341) + (x+1) (x 5+1)
            ( X 1+ 1) ( x2+1) ( x3+1)
= x2x3+x+x3+1+x1x3+x1+x3+1+x1x2+x1+x3+1
               (x 1+11 (x2 +1) (x3+1
= S2x +7S1x+3
    (x1+1) (x2+1) (x3+1)
(4) Calculate x 5ys & 5, unde x, y, 2 sant nad ec. +3+++1=0.
  x, y, 2 ment rad ale ac. px3+x+1=0/x2
                                                   9521
                             3+271=0 122
                                                   D3=1
                            x3+y3+23=-(x+y+2)-3=1x3+y3+2=-3
       x5+y5+25= -(x3+y3+23) - (x2+y2+23) =+3+2=5.
    Cale. x, +x2 +x3 (modu), unde x1, x2, x3 sunt vad
  ec x3+2×+3=0.
  x13+2×1+3=0
 x_2^{8} + 2x_2 + 3 = 0

x_3^{8} + 2x_3 + 3 = 0
  x13+423+43) -9
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$$\begin{cases} x_{1}^{3} + 2x_{1} + 3 = 0 | x_{1} \\ x_{2}^{3} + 2x_{2} + 3 = 0 | x_{2} \\ x_{3}^{2} + 2x_{3} + 3 = 0 | x_{3} \end{cases} \times x_{1}^{4} + x_{2}^{4} + x_{3}^{4} = -2 \left( x_{1}^{2} + x_{2}^{2} + x_{3}^{2} \right) - 3 \frac{51}{=0}$$

$$= 8.$$

1/-

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Œ.

2018: 6=336 rest 2  

$$\chi_{1}^{2018} + \chi_{2}^{2018} + \chi_{3}^{2018} = -2(\chi_{1}^{2016} + \chi_{2}^{2016} + \chi_{3}^{2016}) - 3(\chi_{1}^{2015} + \chi_{2}^{2015} + \chi_{3}^{2015})$$

$$= -60-24 = -84 = -4(\text{mod } 11)$$