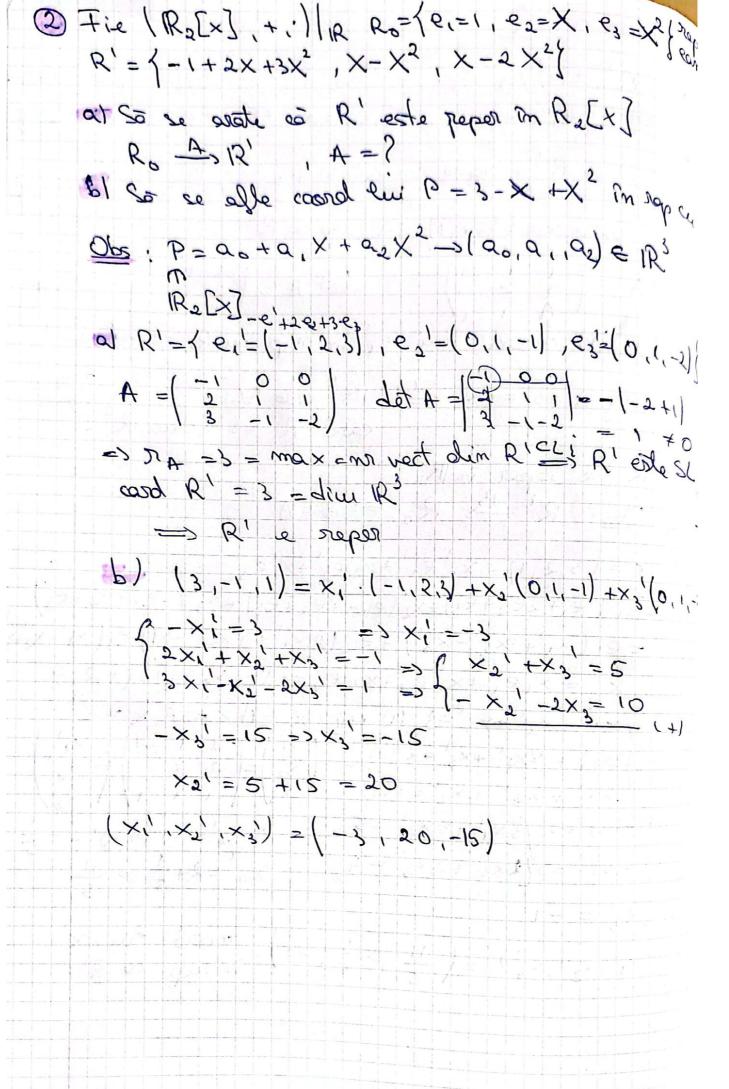
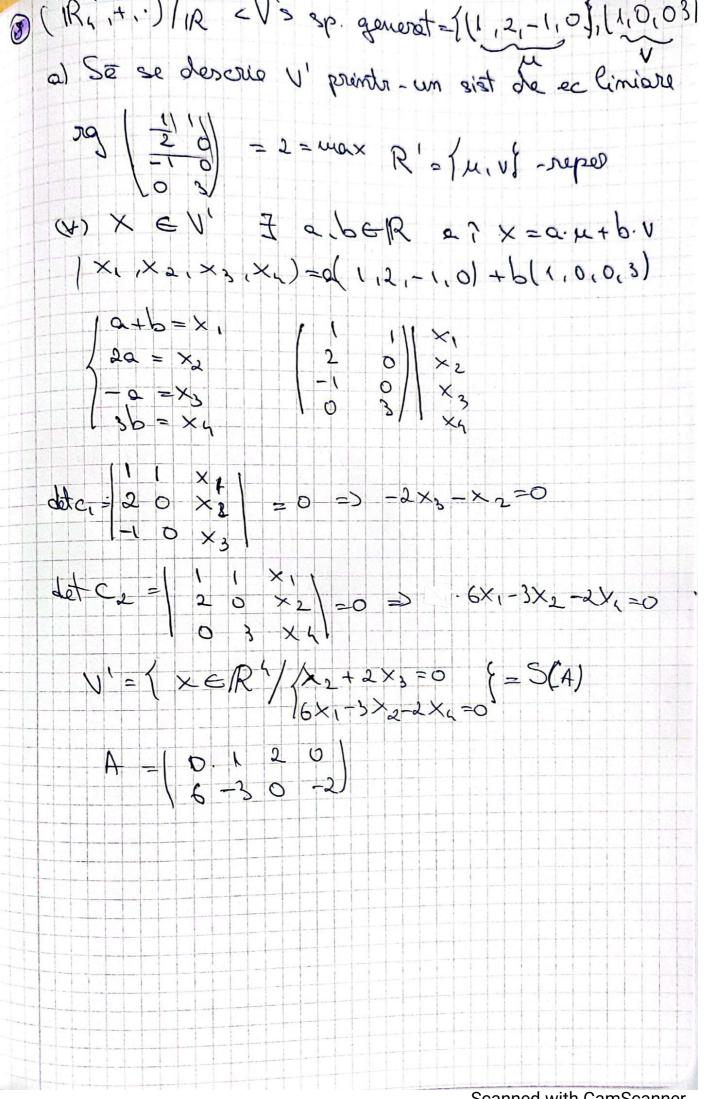
(R3, +1.)/12 Sp. si Ro= Te1, e2, e3)-reper comour R'= 1e,'= Q,+2ea+es,e2'= e,+4ea+e3,e3'=-e,+e2+e3 a) Dem R'e reper In IR3 si Ro As R', A=? (week of tracerd 6) courd x = (3,2,1) in sop cu R' $A = \begin{pmatrix} 2 & + & -1 \\ A & + & 1 \end{pmatrix}$ det $A = \begin{vmatrix} 2 & + & 1 \\ A & + & 1 \end{vmatrix} = 10 + 0$ (1,21) coord, lui ei în rap en Ro-> colorus 1 rang- $A = 3 = max = \frac{CLi}{S} R' eslo SCi$ card $R' = 3 = dim 1R^3$. Prop =) R' le sieper in 1R3 Obs: R1 13 R0 => B=A-1 X = (3,2,1) = X, e, +x2'e2 +x3'e3' =x('(e,+2e2+e3)+x2'(e,+4e2+e5)+x3'(-e,+e2+e3) = e, (x, + x2 - x3) + e2 (2x, + 4x2 + x3)+e3 (x, +x2+3) x = x, e, +x2 e 2 + x3 e 3 => (x, 1x2, x3) = (1,2,3) (x1+x2+x3=3 (1) MT X=AX=3AX=X 2x' + 4x2' + x3' = 2 (2) 2x' + x2' + x3' = 1 (3)(1)+(2) => (3x1 +8x2 =5 5 x2 = -1 = 1 x1 = - = (1)+(3) => 2x(+2x2 = 4/ X3 = -1 coord lui x $(\times_1',\times_2',\times_3')=(\frac{11}{5},-\frac{1}{5},-\frac{1}{5})$



@ (1R3L×1,+1) (1R 11 = 1 PE 1R3[x] (P(0)=0) B= & 12=1 PEIR3[x][P(1)=0) Us = { P = 1/2 | P(0) = P(1) = 0} a) Vi = R3[x], (x) i= 1,3 subsp. vect 4) P,Q ∈ V, si (4), a,b ∈ (R => a P + b Q ∈ V, (aP+6Q)(0) = aP(0)+6Q(9)=0 => VI C IR 3[x] subspoking vect. Obs: 1,= {(00,0,00,00) € 1R4/00=01 A,=(1000) b) R; reper in V; , 1=1.3 $R = \{ \times, \times^2, \times^3 \} = SG \text{ pt } V,$ $R = \{ \cdot, \times, \times^2, \times^3 \} = SCi$ $R_3 = \{-x + x^2, -x + x^3\}$ $R_5 = SCi^3$ $R_5 = \{-x + x^2, -x + x^3\}$ $R_7 = \{-1 + x, -1\}$ $R_7 = \{-1 + x, -1\}$ $R_7 = \{-1 + x, -1\}$ cound in rap en R, (1,2,3) 12 = 1+2 × 2 -3×3 € V2 cool in rap en R2 Pa=2(-1+x)+b(-1+x2)+c(-1+x3)= = - a -b-c + xa + bx2 + cx3 -a-b-c=1 1 0 = 0 (0,2,-3) P3 = X+3X2-4X3 € V3 coord in dap cuR3 P3 = 0'(-x +x2) + b'(-x+x3). =-(0,+p)×+×g1+×3p (3,-4) in sap cu R3 1-21-6=1

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d1 R3[x]=V; QV; , i=1,3 Vi'=? subspatice complementes lui Vi R,={x,x2,x3(completam & un sepen im R3[x] RIU(1) este soper in 12 s[x] Vi spakin general de ved edengat? R2=1-1+x1-1+x2,-1+x3 det (0 0 0 0) \$0 => sig max = 1 Rs={-x+x2, -x+x3} completem de un seper m 183[x] V, = < < 1, X > el R3[x]=W, @W2 @W3 $R_{o} = \langle 1, x^{2}, x^{3} \rangle = \langle 1, x \rangle \cup \langle x^{2} \rangle \cup \langle x^{3} \rangle$ W=< P'; > 1 spotiu generat de P; R3[x] = U, @ U2 @ U3 DU4 Ro = { 150 { x } 0 { x } 0 { x } } R' R' R' R' U; =< R, > = 1,4



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