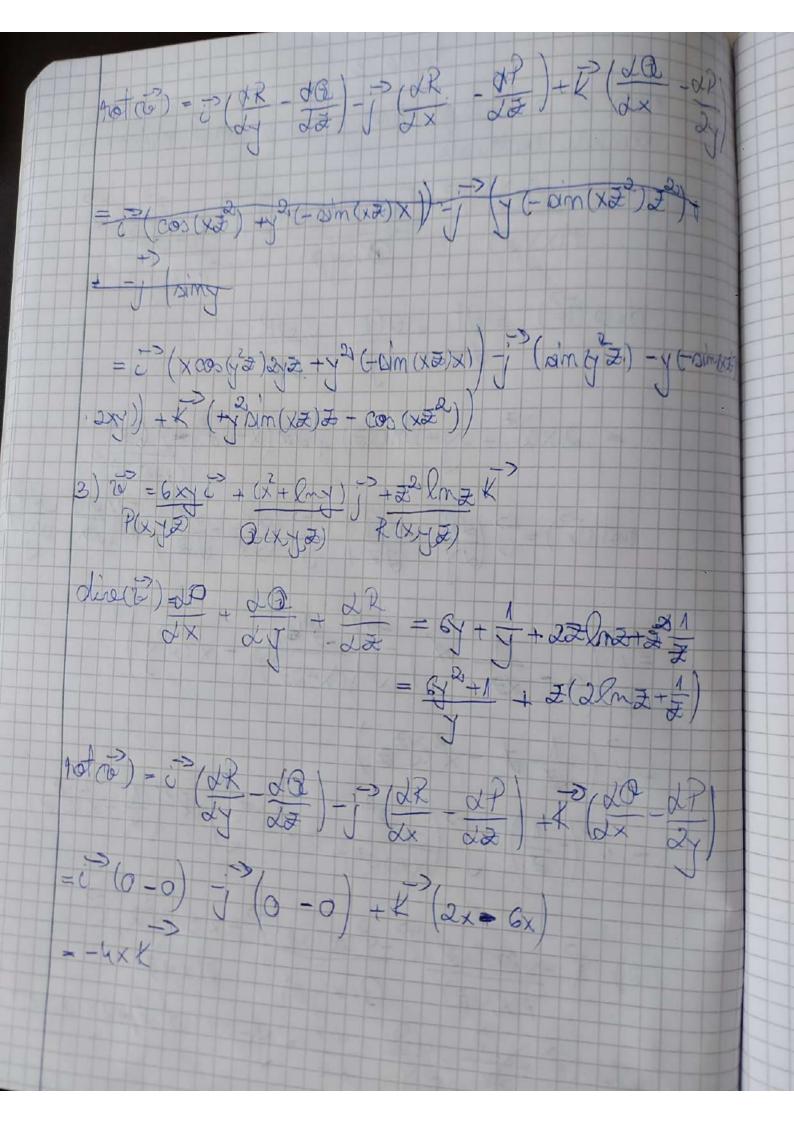
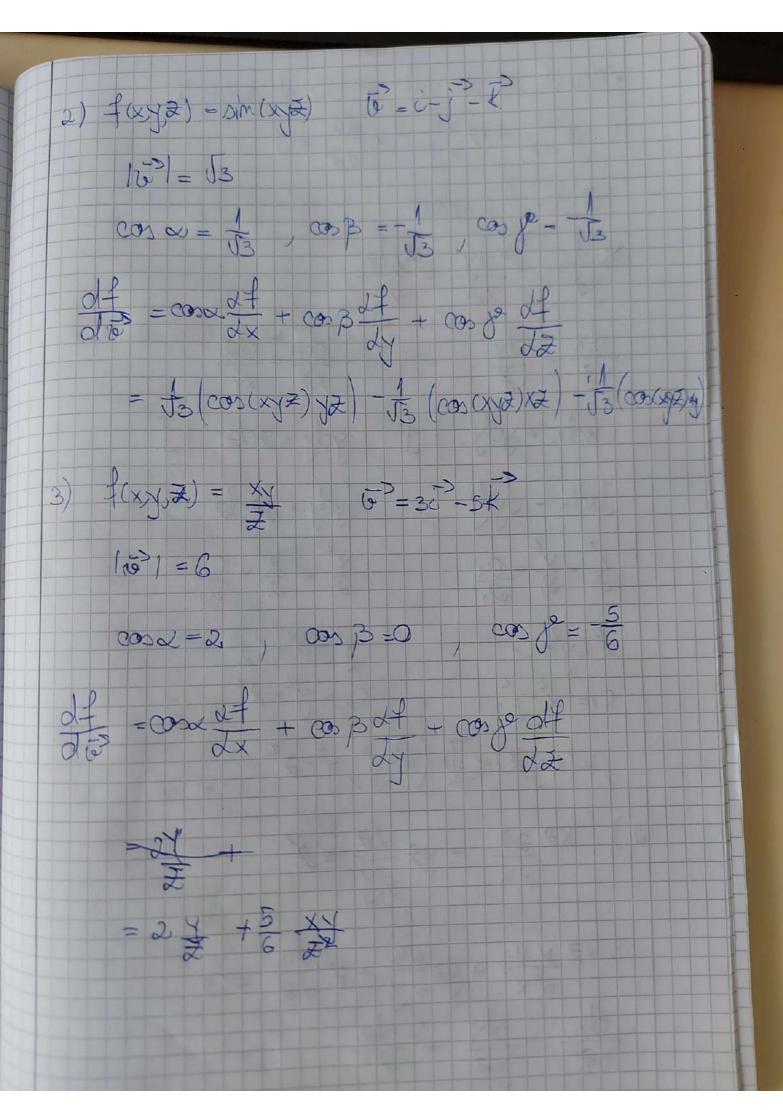
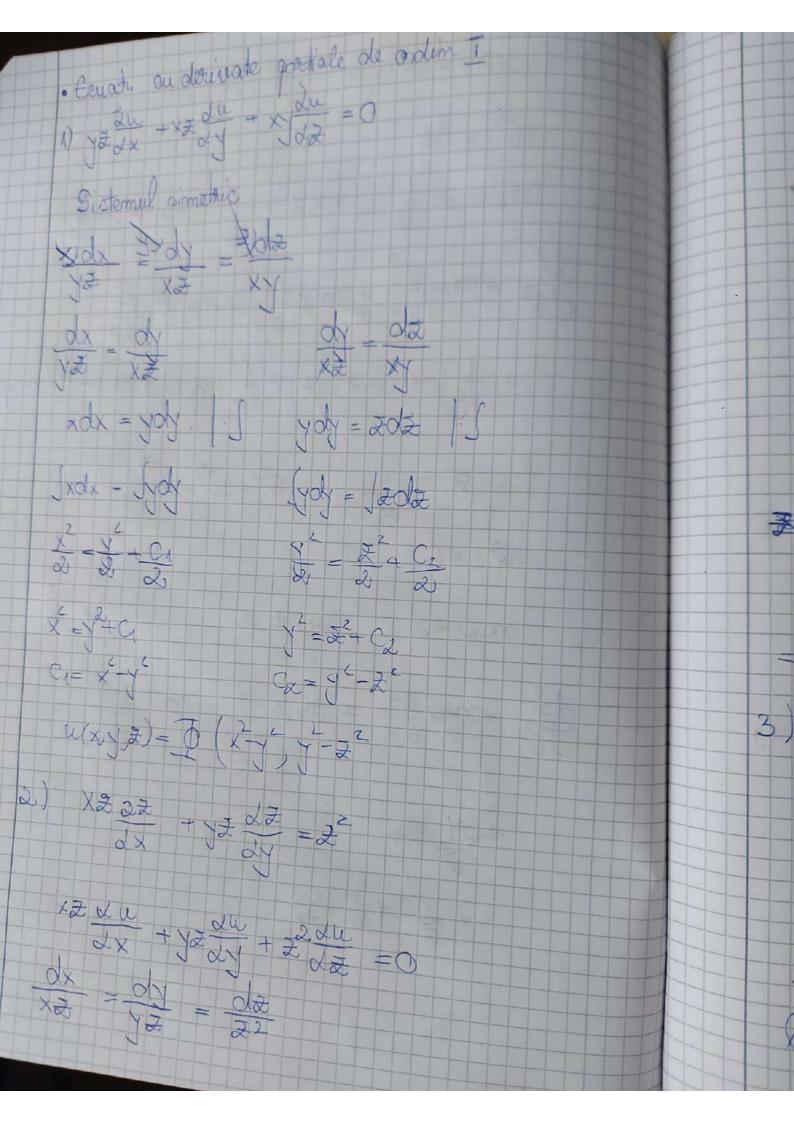
· Sa se calcule de divergenta si notaul vernotocrelor 1) 6 - x ey = 7 + [x+lm(x)] + x+22 K P(xy) = R(xy) = R(x,y) = R(x, dio (ie) = dP + dQ + dR dx dy dz = $2 \times 0^{2} + 2y + lm(xz) + 2z(x+2z^{3}) + 2z(x+2z^{3})$ not (2) = 2 (2) - 20 (2) - 3 (2) - 2) - 2 (2) $=\frac{1}{\sqrt{3}}\left(\frac{1}{\sqrt{3}}\right) + \frac{1}{\sqrt{3}}\left(\frac{1}{\sqrt{3}}\right) + \frac{1}{\sqrt{3}}\left(\frac{1}{\sqrt$ + K (* # - x e) # =) $-i^{-3}(-\frac{1}{z})$ $-\frac{1}{(x+2z^3)^2}$ $-\frac{1}{(x+2z^3)^2}$ $-\frac{1}{(x+2z^3)^2}$ $-\frac{1}{(x+2z^3)^2}$ a) $\vec{b} = y\cos(x\vec{z})\vec{c} + y\cos(x\vec{z})\vec{j} + x\sin(y\vec{z})\vec{k}$ $\vec{p}(x,y\vec{z})$ $\vec{Q}(x,y\vec{z})$ $\vec{R}(x,y\vec{z})$ dire (10) = 2P + 20 + 2R = y(-sin(x2) = 2) + 2y cos(x2) + x cos(x2) y 2 y 2 x 2



4) 0 = (0 -x2) 1 - (2ey-ey) - xy2 6 P(xyz) Q(xyz) P(xyz) dia (10) - 13 dP - da - dR - e-= + ze-x = eya x - xy 40 (0) = 74R 20 - 10R -27 +2 (00 -41) = 0 (-xz'-exy)- - (-yz'+x)+ [zexy-0] · 50 se alculeze gadientel amotovolor compute scolore 1) = (xx=) = eJ + DIM(x+24+32) agod f = 2 f -> 2 f -> 2 f -> =(C) y= + cos(x+2)+3=)(2++) (+(C) x=+cos(x+2)+3=)(2) + (ext x + 000 (x+2x+3x)3) (-2) f(xy, =) = (2x+3y) c y = (m (x+)+37) glod f = df = 2f = 2f = 2ex = (2x+3y) extra

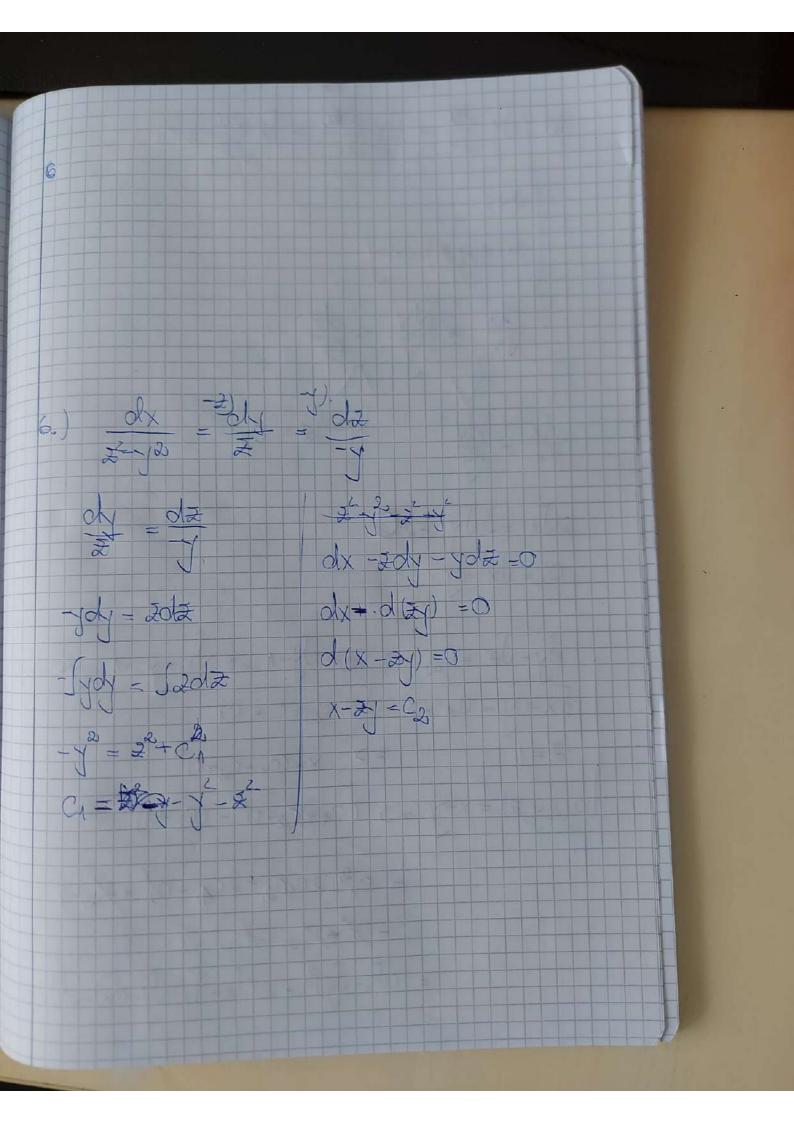
+ ((2x+3y)e) xy - 1.3) K 3) f(xyz) = 0909 (x+24+32) ghat () = df ? + df ? = (x-2y+30)2m 1 · 2 -> 1 · 67 /> (X+2y+37)+1 / + (X+3y+37)+1 · So se colculare deriverata inmotorare la compute scalar dup directa vectoralia à 1= 1 = Junuar = 19 = 3 10/ = 2 -> 1 -> 1 -> 1 -> 1 -> $\cos \alpha = \frac{2}{3}$, $\cos \beta = \frac{2}{3}$, $\cos \beta = \frac{1}{3}$ 115 - con 21 + con 04 + con 9 21 = 3 (2x) 2 + 3 (3x / 2) - 3 (4x / 2)

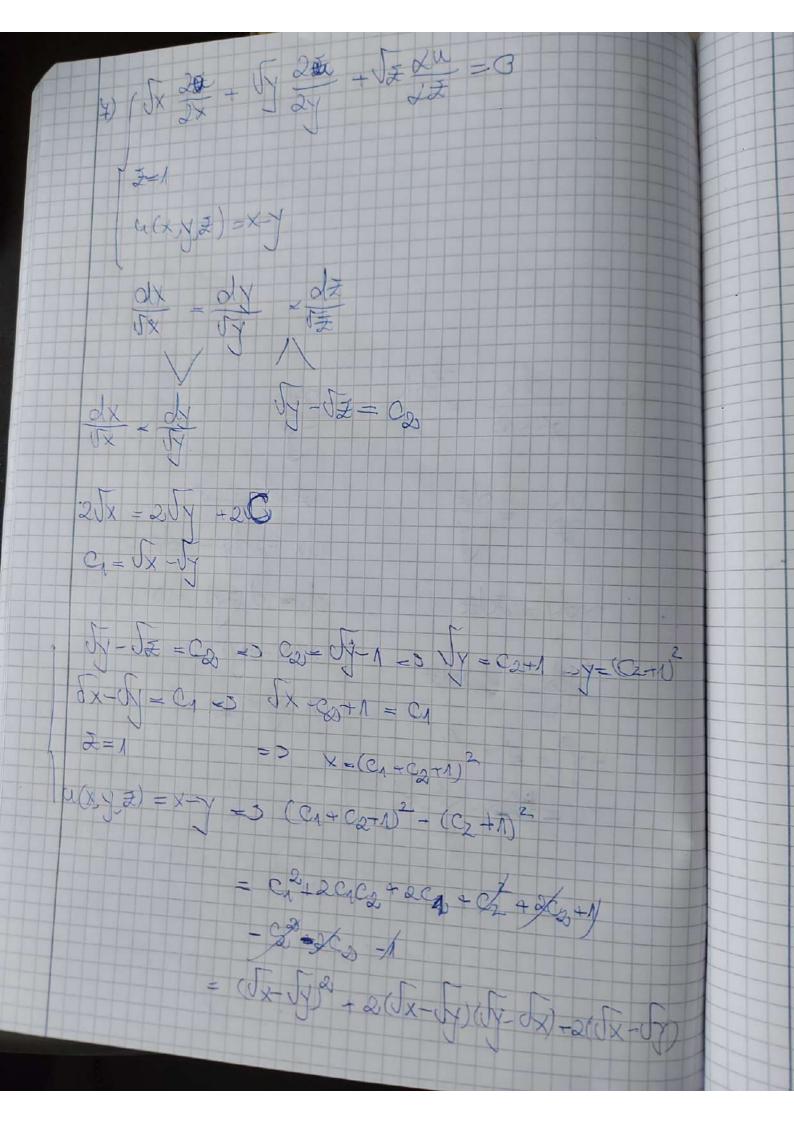


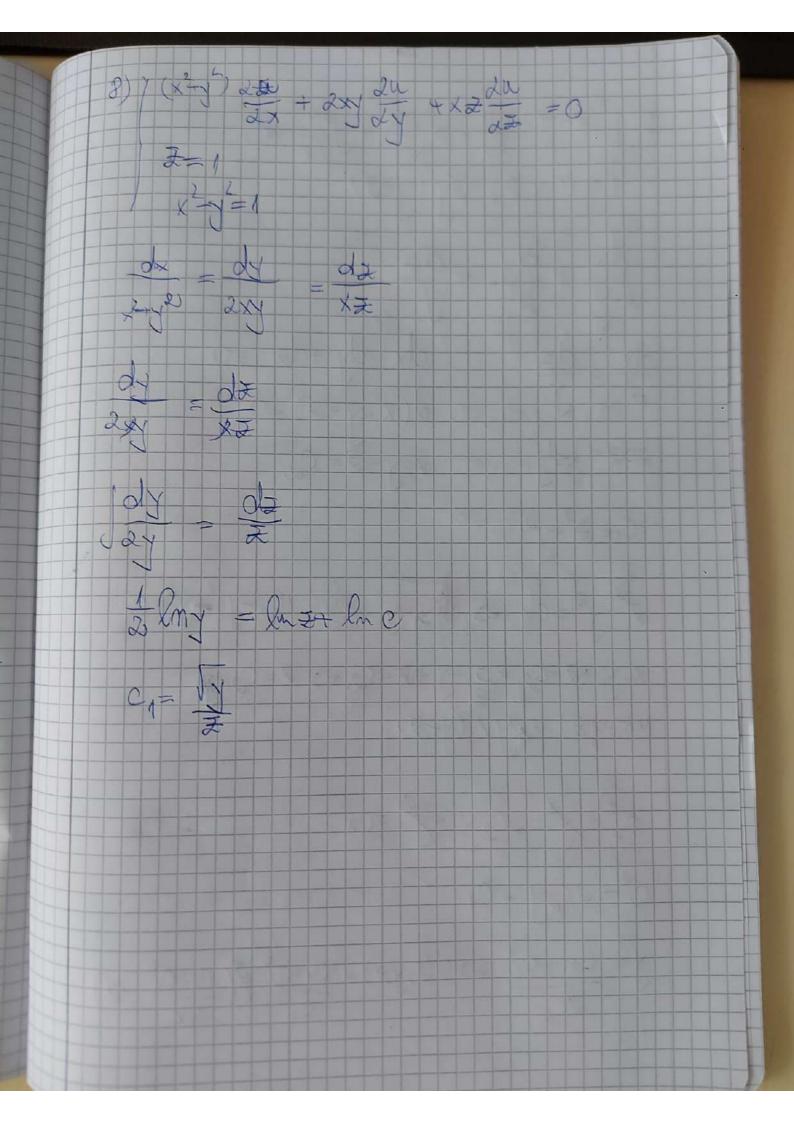


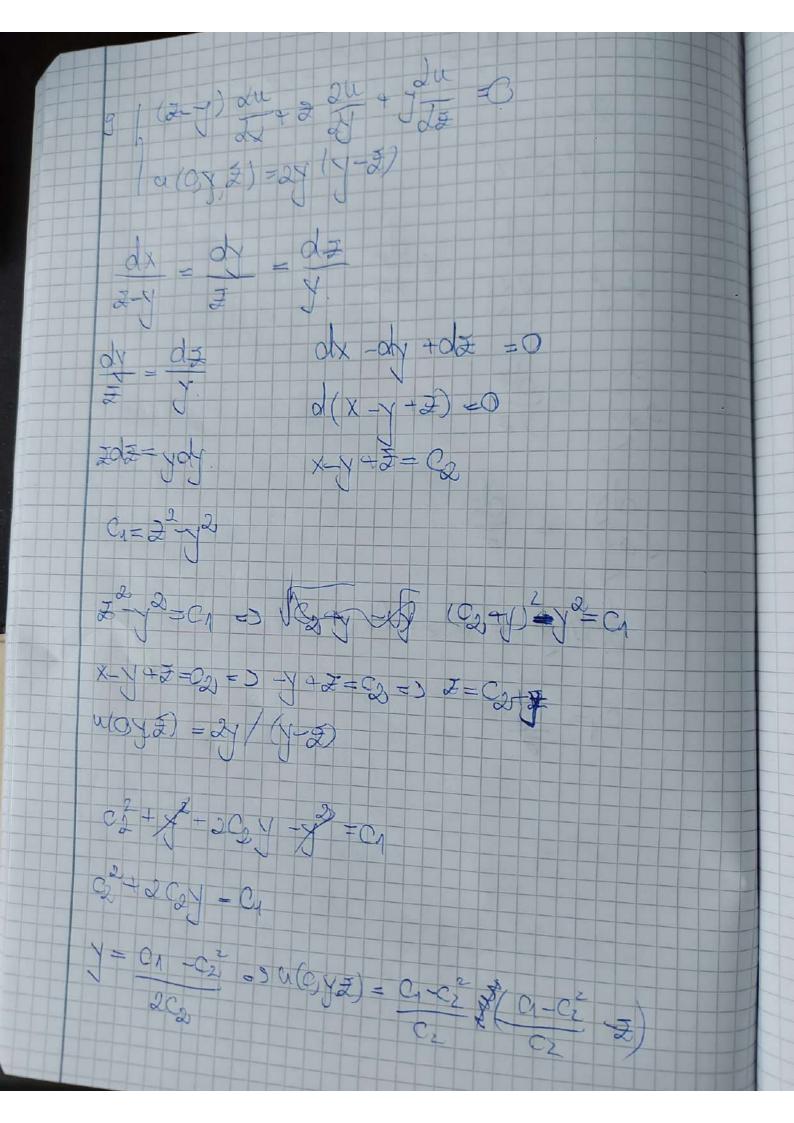
N - (da Jox - Joh Dony = Ind + In lux = lny + ln C, In Ca= Poux - Pry ence on (>) (X) = (X) = Jydx -John Jody - (X-y) da x du + 1 2 u + (xx) du = 0 dx + dy = dz dx tdy - dz Jex - Jex Renx - Imy+ Pon Ca dx +dy -d= =0 Cy = + - = -02

4 (7+2) d2 + (24x) d2 = X4Y (Y-=) 24 + (Zxx) 24 + (xxy) 21 =0 xdx = vdv + = d= = 0 x min # = Cy

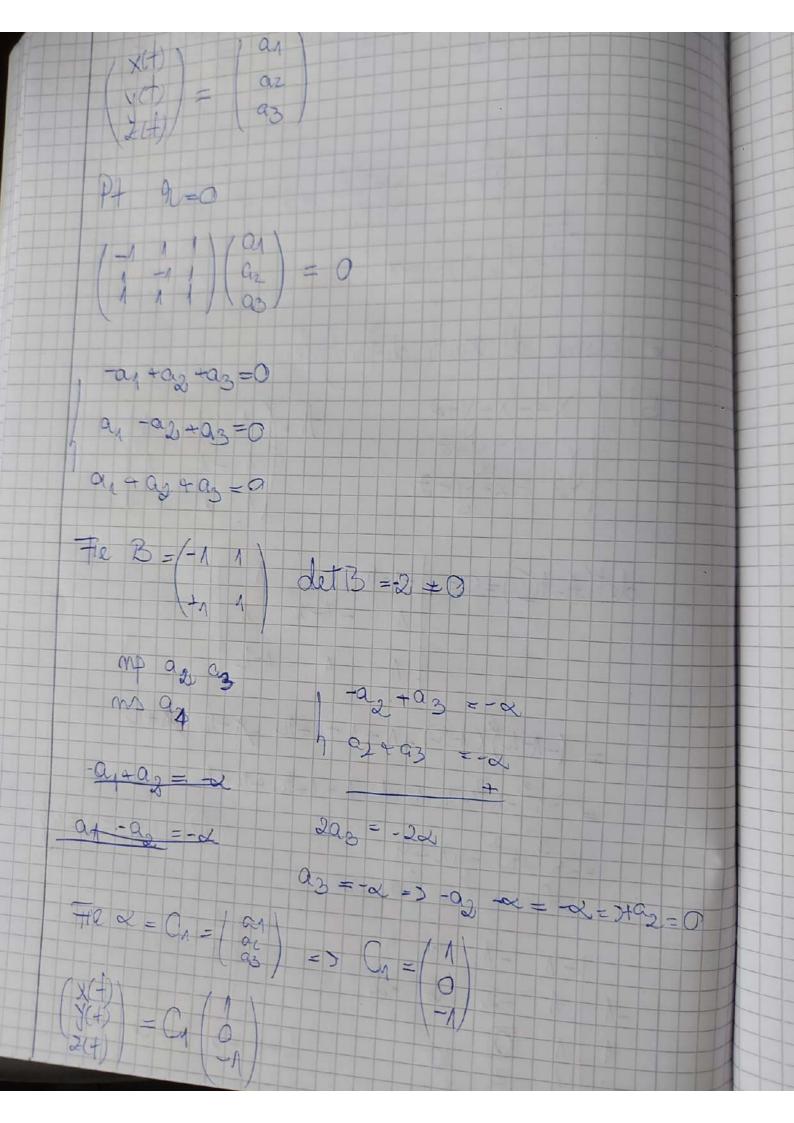








1 X # 2 # - Y # 2 2 - 3 - 4 17 2 2xx =1 · Susteme de acuati diferentiale 5) (X=-X+V+2 |y| = x - y + z |z| = x + y + z |A| = x + y + zA A A-Z = (-1-h)(1-h)+1+1+1-x+h +K+h りゅうりょりせるりまり = - 1 - 1 + 49 + 49 schoma lui horner L=1 => 1=0



1) (x = 4x - 34) det(A-21) = 4-2 -3 3 4-12 = (4-12) +9 = 16-81+2-49 = n2 32+25 D= 64-100 = -36 CO $\Delta_{1} = 2 + 6i = 4+3i$ 12=4-36 4 -3 (91) = 4-3i (92) 4/ -302 =48/ -30/ 5a, 4496 = 499 + 3a2 (1 -az = au 1-3a2 = +391L 13a1 = 3a2 L