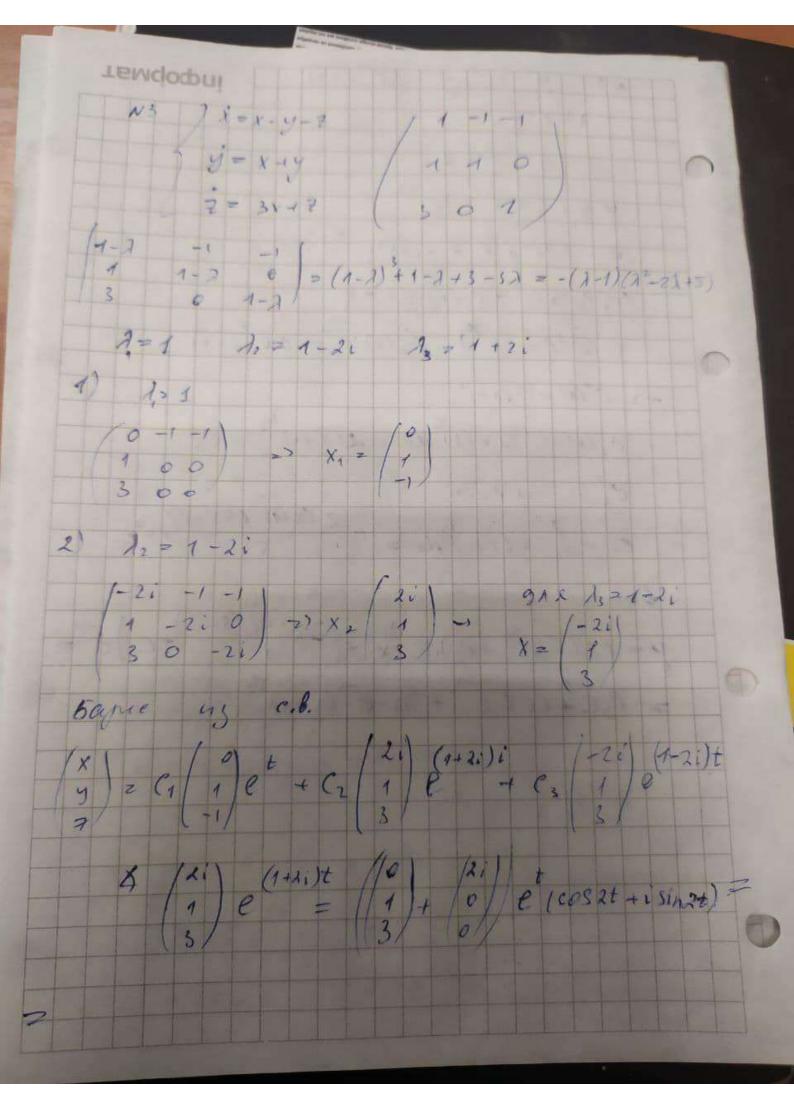
Baquann 0 Kp 24.12 NS (you) 1 y" = 7x - 3005x y"= 2(x) => 2 = y" => 2"=y"" Z"+ Z = 7x + 3 cosx y=0,0" + 0,0 = C, (cosx + isinx)+(, (cost-x)+ = Ci cosx+ & sinx 1 E; (x) 1005x + E; (x) sin(x)=0 (E/(x) - sinx + C/(x) cosx - +x - beox cosx sinx = cos x + sin x = 1 O Sinx = SSinx *cosx - 7x Sin 7x-3cosx cosx Cosx 0 = 7xcosx - 3cos2x $\widehat{C}(x) = \frac{5\sin x \cdot \cos x - 7x \cdot \sin x}{4} = \frac{5\sin x \cdot \cos x - 7x \sin x}{2} = \frac{3\sin x \cdot \cos x}{2} = \frac{3\sin x}{2$ = 13 sinx cosx dx - Sax sinxdx = Sasinxdsinx -- Saxsinx olx = 2 Sin3x + 7x - cosx - 75inx + C1

TEMCoopni C'(r) = Prost - 3008x - 18 = S(7x005x - 3005x) olx = - 7 (45in + eosx) - 3/2 (cosx sinx +x) + cz 7 = (3/2 Sin'x + 7x cosx - 75inx + 12) ewsx + Sinx - (... · (4x5) x + 7 cosx - 3/1 (cosx sinx +x) + cr) = = 3/2 sin'x cosx + 7x cos'x - 78in x cosx + C+cosx + - 7 Sin'x + 7 cosx · sinx - 3/2 cosx sin'x - 3/2 sinx ·x + Csmx 4" 7x + C, COSx + C2 Sinx - 3/2 x Sin x Joly = J (\$x + c, cosx + c2 sinx - 3/2 x sinx) alx y'= 7x2+(2(1-3)sinx+(3x-2e2)cosx+C3 y = (920-602) Sinx + (18-601) cosx + 7x3+603 x + 04

N2 9"+24"+4 = 30 (X+5" 12121+1=0 1=-1 0=2 y = (c, x + c,)e-1 y = relx1 x. e + C2(x)e 10, (x) x e + c'(x) e =0 c.(x)1e - xe) - c.(x) e > 3 e Vx+1 -> C'(x) = 3/x+1 $C_1(x) = \int 3(x+1)^{1/2} dx = 2(x+1)^{3/2} + C_3$ Cz = -3x /x+1 $e_2 = \int_{-3}^{3} x \sqrt{x+1} dx = \frac{2(x+1)^2(3x-2)}{5} + C_4$ y= (2(x+1) 12+C3). E.x + (-2(x+1)) (3x-2) + (4) e= = C3C+C4 X.e + 4/5. e (X+1) 5/2



= ((1) e coss+ - (2) e sinst) + i ((3) e sinkt + (0) e t cos2+) = = /-2sinat et + i (2cosat) et seosat et + i (3cosat) et SAR Confinemoro (1) Syget -i N4 /x = y - scost /x = y - scost /y=2x+y /y-2x+y y = 4 + 24 - 10 cost y - y - 2y = - co cost. 2-7-2=9. 31-2 22= y = C1 e + C2 e 1ci(t)e+ci(t)e+0 1 c'(t)2e - C'(t)e = - 2000st

| 2e + 1 | = - e + 2e + - 30 1 - recest - et = recest et | e | 0 | = -10 cost. e 2+ e' = 1000st.et = 1-10 cost. e-2t dt = = -2 e-2t/sint-2cost) + (3 C' 2 -1000 + e21 -3 C = 1 10 cost e dt = 5 et (sint + cost) + Cu 4= (-3 e (sint -2cost) + (s) e + + (3 e (sint +cost) + Ca) 0 e = 5int +3 cost + (3 e + cue y = cost - 3 sint +2 c3e - C4e cost-ssint+age-cye = 2x + sint+scost+ge+Exe X = -25int - 2005 + 1/2028 - Cue