y"-2y"= (6x-ex)2 Percent ognopogues y"- 2 y"+ 2 y"= 0 e (24 - 2 23 + 2 22) = 0 1 (21-21+2)=0 11,2 = 0 /3,4 = 1 ± 6 y = C, + C, x + C, e (1+i)x + C4. e (1-i)x y = C+ + C2x + C3(e cosx +i exsinx) + + Cu (e'cosa) -i etsinx). 4= (C3+C4) e cosx + i(c3-C4) e sinx + C1+C2x y = C1 + F2 x + C3 e cosx + C4 e sinx Mening neonpegeneuro x Korgog. y" - 2y"+ 2y" = (-e"+6x)2 9 - 2y (3) + 2y" = e" - 12e · x + 36x" 1 y" - 24" = 36x"

1) y"- 2y"+ 2y"= 36 x2 e) y" - 244(1)-(24" = ex y= a4 e s) y"- 2y"+ 2y" = -ke.x y = 95 ex + 06 ex y = y, + y, + q, = a, x2 + a, x3 + a, x4 + a, ex + a, y= 2a, +6xa, +12x2a, +4e2xa4+e2x+ +(xex+ex)96 y = 6 a2 124 x a, +8 e - a, + e - a, + (3e + ex) a y"= 2403 +16e a, + exas + (4ex+ ex-x)ac hopemalun: 249, +16 94 e + 95. e + 98 (4e. + ex) --2 (6 G2 + 24 93 x + 8 G4 · ex + 95 ex + G6 (38 + ex))+ + 2/2a1 + 6a2 x + 12a3 x2 + 4a4 e 4 a5 e + +.a.(2e" + e".x)) = e"x 36x2 = 12e-x 49/ 12a, +24a, + (a, +2a,)ex + 8aye2x + 19 (1292 -4893) X + 96 ex + 249, X2 = e-12e:x+36x · 9a, -12a, +24a, -0 12a, -48 a; =0 96 = - 12 95+2A6 = 0 249, = 36 89. =1

a. = 9 a2 + 6 a3 = 3/2 a4 = 1/8 a+ = 24 a6 = -12 Umak y= 8 + 24 ex + 2 + 6x34 0 иноровае решение адиние общего Hangehnord racminors y neograpeques T.e. y= c, + c, x + C, e cosx + c, e sinx + 1/8. ex+ 24 ex + 3/2. x4 + 6x3+ 9x2-12ex3c Peneacon Japany Koeen

y'= e + 12ex + 6x + 18x2 + 18x - 12ex x + C2+C3.e*.cosx-Cse.sinx+Cy.e*cosx+ y'= 2 + 18x'+ 56x-12e', x - 2Cs. e'sinx + +2C4.8.05x -118. y"= e" -12e"+56x-12exx-263.e" cos(x) - 2Cs. e. Sih(x) + 2C4. e. eos(x)-20, e. sinx +. yco1 = 0 = y (10) - 53 C2 + C3 + C4 + 43 = 53 2Cq + 2 = 2 400) - 37 4"/0)= 25 -29 +2C4 +15 =25 C3 = 0 C4 = 0. C1=0 C1=1