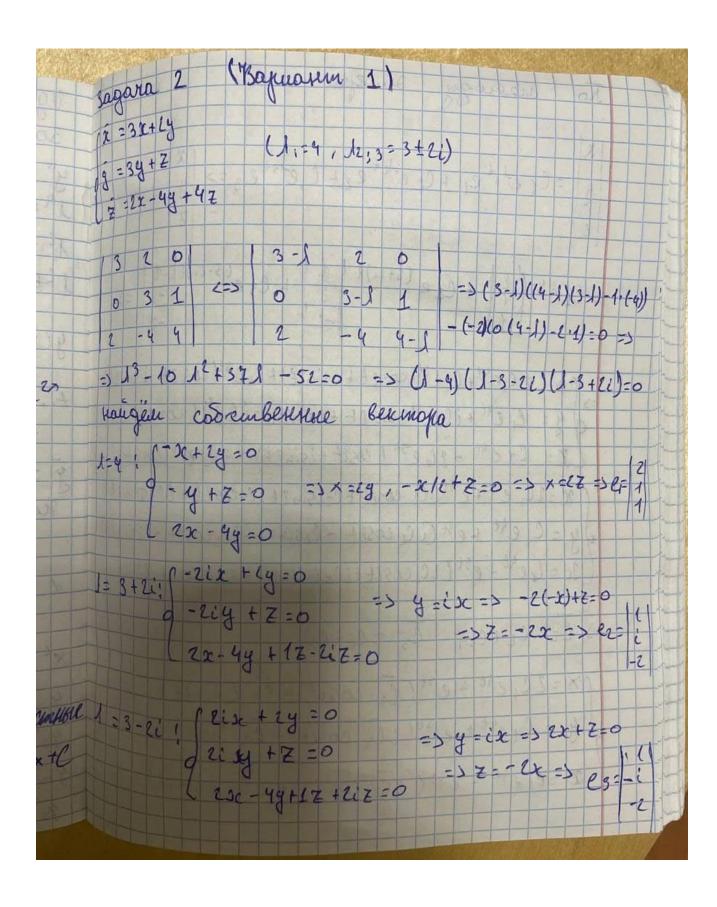
3agara 1 (Ropuanu 1) y +4 y" = 8 e 2x + 8 x 2 14+412=0 => 12 (12+4)=0 12:0 => 11,2 = 0 Kramkocme 2 y = C, x+C y(x)= e x (C, cos 3x + C2 sin 13x) + xex (C3 cos Bx + C4 sin Bx) +... +x K-1 e LX (CEK-1 COSBOC + CZK SinBX) (obusait opaquelyela) I = L+ Bi y = C3 sin 2 x + C2 cos2x + C, x+C Haigem raumoe pennenne gula x²;
yi = x5 e LA (C, cos 3 x + C2 sin BA), ege 5 = 0, llule d+Bi-se kopsess 5=k, cge k=kpamholms 1+Bi-Kopens 40 = 3c2 1 (Axe + Bx+C) 40'=2x(Ax2+Bx+C) +x2(2Ax+B) 40"=124 xc2 + 6 Bx + 2C \$0 5 E4A

Togenaline & accagese grabuerne 48 Axt + 24 BX + 8C+ L4 A = 22 Trogeniable 6 40; gua Kongell roumkoe perrefue L+Bi=2 => S=0 4" = 4A c20 y" = 16A e2x Togenalium 6 novament yrakneme 32 Ae = 8 = 32 A = 8 = 3 A = 1/4 Togenalium 6 91: 9,362/9 Penneure 6000 yrabhelpur y=go + racint 4 = 63 Sinex + Crcos2x + (2x + x2 (22 - 1) + Cxtl

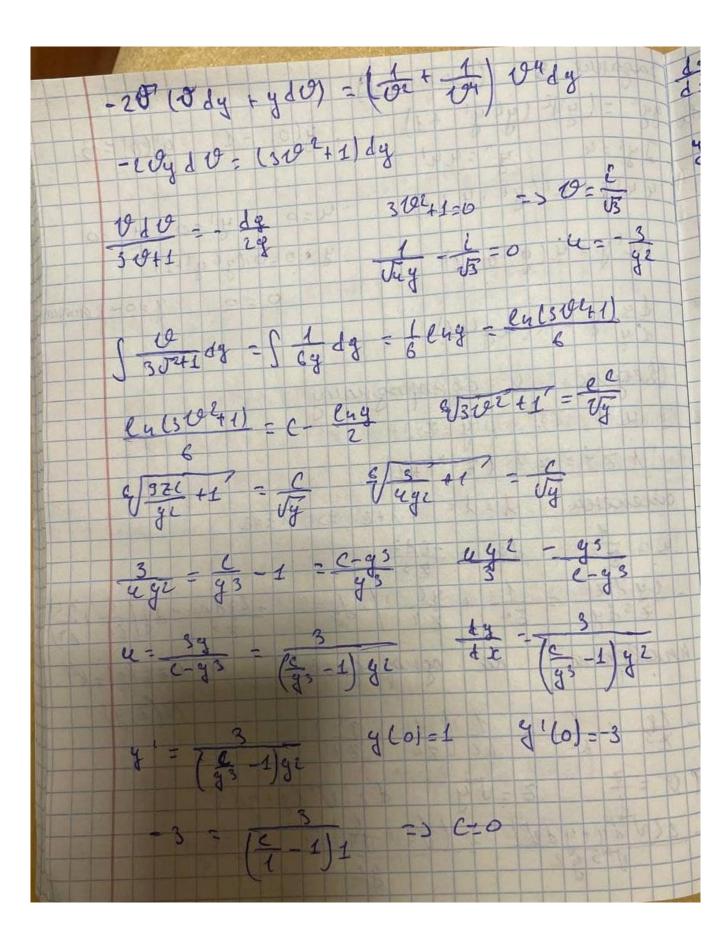


Fineyon To memory y = Credite, + Credite et Credite => y = = C1 e4+ 1 2 + C2 e (3+1i)+ 1 1 + C3 e (3-1i)+ 1 -i = 5 poc-2 Cient (2est (coset + isinet) + Czest (coset - isinet) 9 4 = 6, ett tile est cos et tisinit) - ilgest (cos et-isinit) 2 = CIC4t - 2 Ce est (coset + isin 2t) - 2 Cs est (coset - ismit) (oc=20, et+est(ce coset+czisin2++C3 cos2+-iC3 sin2t) qy = C, et + est (i G coset - Cesinet-ils coset - Cesinet) Jc=4et-est (2C2 cos2t+2Ce i sin2t + 2Cz cos2t-2Cz isin2t) => C2=C2+C3, C3=C2-C3 1x=2C, ext + e3t (C2 coset 1- C3 i sinet) 4 = Clent + e 36 (CCs coset - Cz sinzt) & = C, ett - est (202 cos Lt + 2 C3 & sinzt)

33' = (4')2 (46 4' +1)

34' = (4')2 (46 4' +1)

44'9 = 42(46 4 41) 4 (0) = -3 4(0) =1 4:0 y1:0 y11:0 y 20=0:(y(y1+1) uty = 4(924+1) & =0 - Kometine dy y = u(uy2+1) menerer 1=1= ex+2 => 1=-2 4 = 2 da = -2 dz - Lydz - 1 + yl / dg - 29dz - dy(zl z) molepha ne ognopognound MI KZ, kg)=kh 19(2,9) - 29 · 1 = 1 (1 + 22) u=-2



[3dx=]-gedg 3x+c=-43 y(0) = 3 C1 =0 y=3 -32+C' - Jourbern; y= 3/9x+1, y=0 Jagaria 4 (Bajuatun 4) Tholherue, see passemenouse omkorumento mousbognoù ', y=f(x,y!), p=g'(napariemp)
=> p=y! => dxp=dy; (y')2-y+ 4 x'y'=2lnx-4 => f(2,91)=(41)2+ 4 y1 - 2lnx+4 dy = - (4 1 p + 2 + 8) dx + (2p + 4) dp => => dy= - (4px + cx + 8) dx + 2px + 9 dp => pdx = =- (402 + ex2+8) dx + 2px+4 .dp =) [4px+2x2+4px3) dx=2px+4 dp=> (4px+2x248+px) (2px+4),x2dp => (x2.(px+2)+4.(px+2)).ex 3 = (px+2) 2xldp => (xl+4) dx = 2xldp => xl+4 = up => f &x +4 f dx = 2 f dp => >c- 4 = 2p2l => p= 2 - 2 +C (p= 22-4+2xc => => g1 = x - 2+c 1 x = x 1 y = (y1)2+ x 1y1-261x+ 6 + 4 => y = (x2-4+2x2)2 + 4 , x2-4+2x2 = -2ln 2c + 3ce => y = (x2-4+2xc)2 + 8x2-8+16x 4x2 - 8x2 lux + 16 => g = y- 204+2200-412+4x3-8x6+8x2-32+16xC--xx2lnx+16 => y= 20 44x 20 2 + 4x 3-8x2 lnx => => Omben : y = 302 + 02 + x - 2lnx

Bagora 6 (Baywatun 14) 20 y" + (2+5x) y 1+3y = -3e-5x, x>6 20g" + (2+3x) g1 + (3x+2) 29 ==3e-3x ((3x+6)9)2 (241)2 ()cy') x + ((3)c+c)y) x - y'x = -3e-3x (28+ (3x+2)y - y) = = -3e-32 ncg + (3x+2) y - y = e - 3x + C, 2c y + (3x+1) = e-3x + c, (Jayaneric) u= c, e3r +2+ l2 I)) cy + (3x+1)g = 0 \$ \full da = \frac{1}{2} - 322 Omlen: y= c,e3x+5x+36 luy = - Cyx - 3>c + Cz y = 27 25x = 2x xesx + (3x+1) x 23x = 2x + C1 41 - 1 +x6, 41 = C103x +1 (1d4=) C103x+1dx