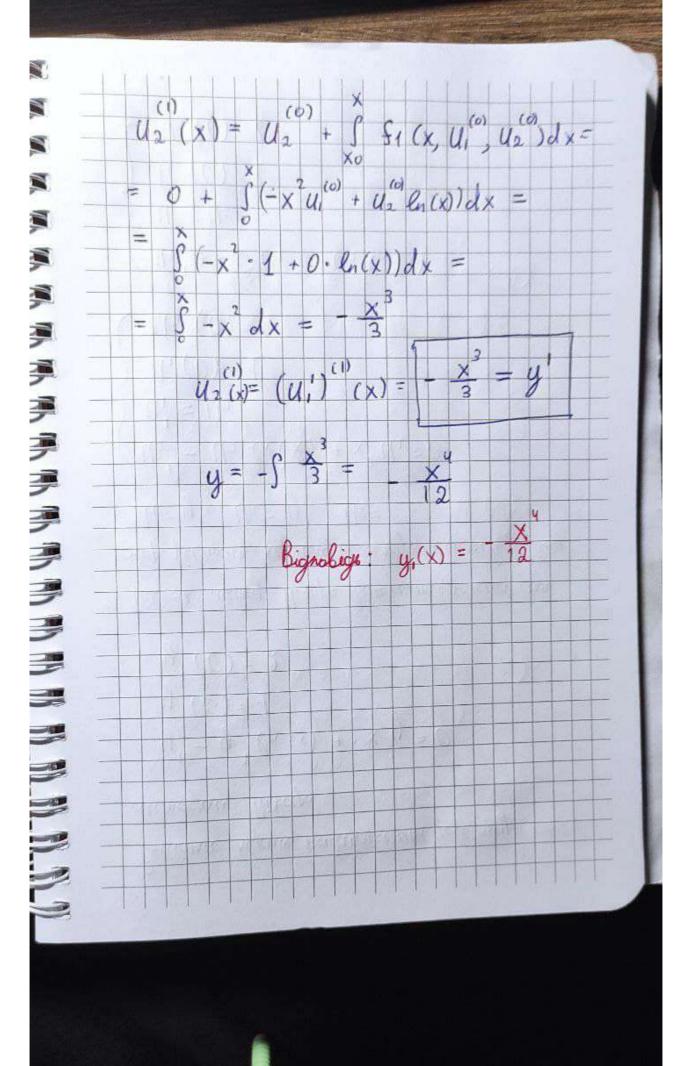


Megupinolauni Manny Europa Xn+ = Xn + 1/2 yn+1/2 = yn + h/2 f (xn, yn) yne = yn + h 5 (xn+1/2, yn+1/2) U. (X1) -3  $X_{0,5} = X_{0} + h/2 = 1 + 1/2 = 1, 5$ U1 (X0,5) = U1 (X0) + 1/2 U2(X0) =  $= 2 + \frac{1}{2} + 3 = 3, 5$ U2 (x0,5) = U2 (X0) + 1/2 (U3 (X0)) =  $= 3 + 1/2 \cdot (-1) = 3 - 0,5 = 2,5$ U1 (x1) = U1 (x0) + h. U2 (x0,5) =  $= 2 + 1 \cdot 2, 5 = 4, 5 = 4(2)$ Bignolige: y (2) = 4,5

Sucutiones repute madernicerens post onjey Memogan Mikapa y"-y'ln(x) + x2y = 0 y'(0) = 2 Tax xx remay Mixapa beropulmoby emecs gust gusp pileusus repusso raporgey, blegano zaniny U1= y U2= y  $U_2' - U_2 \ln(x) + x^2 U_1 = 0$ | U1 = U2 1 U1(0)=1 (U2(0)=0  $u_1' = -x^2 U_1 + U_2 U_1(x)$ U1 = U2 4,(0)=1 (u2 (0) = 0



Mokedone spok pilmer 1 ma za gonamowo Chinorno - pizungelow memogy zlecom go cucinell visitioner alrespaineres pileans, sky monarci dyge pozl'ozamu nponorekono y" - 4 y'x = 0 y (D) = -1 y'(2) - y(2) = 1 x== 0 x=1 x=2 [a, 6] = [0, 2] o) yo = 1; y = ?? i) y'(xi) = yi+1 -yi y"(xi) = yi+1 - 2yi + yi-1 Вихористакию р-них: - 4. 42-41 y2 -241 + y0 1 2 This 42-41 )- g2 = 1 y = +1

Modycyglamu Taramorier nauxpanyoro pilnaup ного набинасина 1-го спечена для функци X Ha manishry [-1; 2] Branimu ligan ления та тики чебищевського антернанцу. [a, 6]= Di Torku reducieleskoro alimepiana : 2 i 0 SUPER, 61 INSTUBI Kenepephia, lungua na ta, 67 depunyin & (x) natu Decarmous unormerous 1- 20 conserve Q, (x) = a0+a, X Ba Teoperhoro Reduneba: \$ (a) - (a0 + a1 a) = 1 AS § (d) - (a0 + a, d) = - 2 s 5 (b) - (a0 + a, b) = L s Masuo:

Torku a i b ymlipiene y = X, Tpenet Torkow d bizewere Torky naugaring big y= x, a care -1 5(2) -ao -a, 2 = 115 5 (-1) - ao -a, (-1) = 21 5 5 (0) - ap - a, 0 =-115 2 - a0 - 2a1 = 215 1-do+a,= -215 - do = - 1 A 5 (2-ao-2a,= ao (-ao-a,=-1 (1-do+a= - ao 2-2ao+a1=-1 -3 a = -2 a = 2/3 => a = 1/3 Tagi: Q" = 1/3 x + 2/3 Bigameron: A & = mAx (|x| - x/3 - 2/3) = x & E+1;27