22.03.24. Newywe S. thopen the ocnobe Mogene, oeuchannoer na gbyx machers yerobines. Tarka us ongras a flight of E Tyte = 9 -ype yayrar mum Blegan encr. nough + yearbine & sorman To crowolna japaru. F(x, u, u', u', ..., u(x)) =0 Kpachre yerohul: 4/k (\(\xi\_k), \(U(\xi\_k), \(U'(\xi\_k), \., \(U'(\xi\_k), \., \(U'(\xi\_k), \., \) Ecu oбодианить My=M'  $u_2' = u_3$   $u_{n-2} = u_{n-1}$ Torqa f(x, U, U,,, Un-1)=0 Booyen buge nocambra jagares borneger cines. ostajon  $N_{k}(x) = \int_{K} (x, u, u_{1}, u_{2}, ..., u_{n})$   $Y_{k}(\xi_{k}, u(\xi_{k}), u_{1}(\xi_{k}), u_{2}(\xi_{k}), ..., u_{n}(\xi_{k})) = 0$ ko lin Peman orgenerany, nougen concrantor

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2 × 0 = 0  - C1 + 2 C2 + 1 = 0  • × 1 = 0.5  - 17 C1 - 49 C2 + 1 = 0  • (C1 = 0.957  - C2 = -0.022			te	901	al	hai	eei	Ч	3	W)	enci	,	, ,	ju	ip	ab.	ш	ıl.	ou	u	1	K	e	)		- T		-5	
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776 $-17$ $C_1 - 49$ $C_2 + 1 = 0$ $\Rightarrow$ $C_1 = 0.957$ $C_4 = -0.022$ $\Rightarrow$ $y(x) \approx 0.957 (1-x^2) = 0.022 (x = x^4)$ remember.  7.2 1) by amount gue y & luger gran a new p  1.0) $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ .  1.0) $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ .  2) $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ $y_0$ .  2) $y_0$ $y$	0					100									100	2.3	1	j. A		N,			3						
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⇒ $\begin{cases} C_1 = 0.957 \\ C_2 = -0.022 \end{cases}$ ⇒ $\begin{cases} C_1 = 0.957 \\ (-x^2) = 0.022 \end{cases}$ penieure  7. 2. 1) boyamenne que y l'huge gran a neu p  1. 2. 1) boyamenne que y l'huge gran a neu p  1. 3) $\begin{cases} C_1 = 0.957 \\ C_2 = -0.022 \end{cases}$ 1. 2. 1) boyamenne que y l'huge gran a neu p  1. 2. 1) boyamenne que y l'huge gran a neu p  1. 3) $\begin{cases} C_1 = 0.957 \\ C_2 = 0.022 \end{cases}$ 2. 1) $\begin{cases} C_1 = 0.957 \\ C_2 = 0.022 \end{cases}$ 2. 2. 2. 2. 3. 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.			77	Ø	A	7	6	l	1	-	6	4	C	2	1	=	0					1	11	Ì	1		1	- 1/4	
$ \begin{array}{l}                                     $															167														
J(X) ≈ 0. 957 (1-x²) + 0.022 (x²-x²)  penienne  7. 2. 1) boyamenne gue y l'orige grun a veen, p  1.0) Un ygoba. verope up ych.  1.0) Un (c roncrawrama) - nun negal,  ygoba. opnop. up ych.  2) y neger. b sugra, ype (vex.)  3) nach roperanobay unjent roncravrot  (romordymu) > c nonouspro ych & R=0  7. 2. colimpenne b roxuax ymin.  hemenne e roxuoun		7		{	1 2 1		11	25		4					1	3 1	138			110		4	1/2			W	1 %		
7. 2. 1) boyamenne gue y l buge grun a reen p  1.0) Up ygobu. iceopu. up ych. 1.0) Uk (c koucrantamu) - nun negal, ygoba. ognop. kp. ych.  2) y nop co. b susper. ype (ucx.)  3) noene noporanobny unjen koucrantot (kounoudyen » c nonouspro ych e R=0, 7. 2. cobingenne b roxuax ymis. hemenne e roxuous		Sic	113		L.	4 =	- ~	C	) , (	O Z	1		100	122	di Si-	NS Ju	New York		7	3, 14			>	J.		1			J
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1.6) We (c Koucranthum) - mu negal, ygola. opnop. Kp. ych.  2) y noper. b guspas. ype (ucx.)  3) nach noperanobay wyed (vex.)  (Kounokayuu = c nowayan yeur. 7. e. cabangenne b roxuax yuun. hemunul e rorusuu		1	-	7. 1	2 .		1	)	N	by	ka	nc	en	ne	0	Ru	e	y	6	-	lu	ge	Vg	n	W	u	10	eu	·ji
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d. ellerg Tampened

y (2) = 40(0) + = 5(k 1/k 1/k)

No, No - 40 x see yeals year and y merepa

R(x, C1, C2, ..., C4) = Ly - flo)

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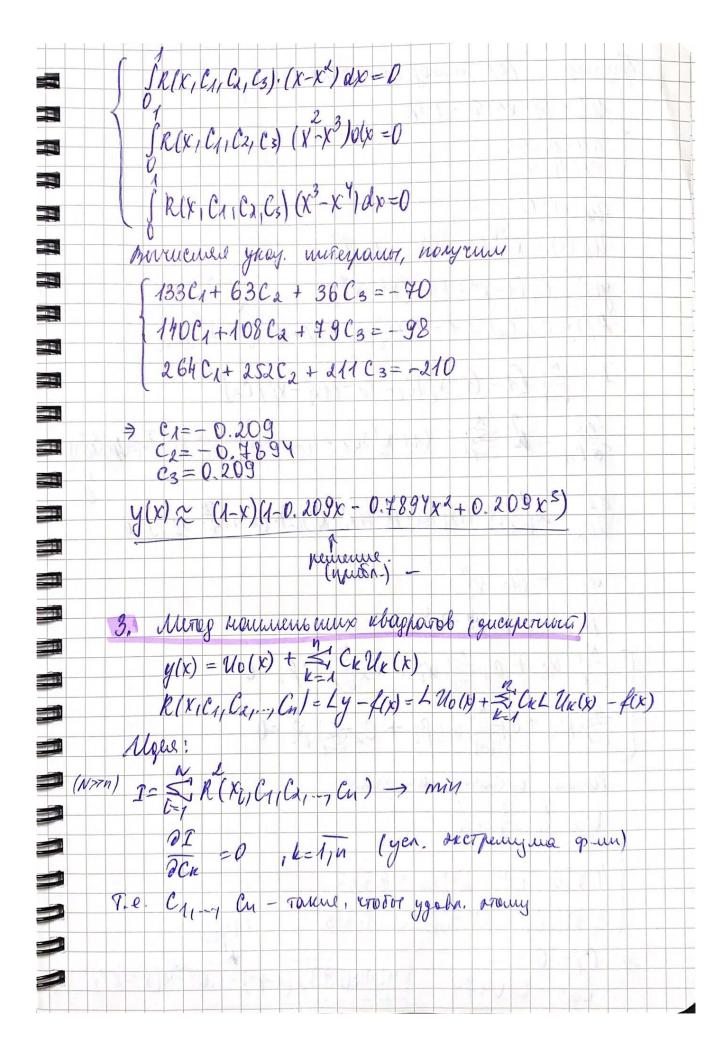
(x) J k(x, C1, C2, ..., C4) = Ly - flo)

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(x) J k(x, C1, C2, ..., C4) = Ly - flo)

(x) J k(x) = Ly - x ranche, no maryons or be about a grade d. ellerog Famprense.  $y(x) = Mo(x) + \sum_{k=1}^{\infty} C_k M_k(x)$  Mo, Mk - ran nel yeabs. yes-sem cy meropa

<math>Mo, Nk - ran nel yeabs. yes-sem cy meropa



(cu. europ remoragus) 114 + (1+ xx) 21 + 1 = 0 U(-1) =0 U(1) =0 Up (x) =0 Un(x) = x 26 (1-x2), 6=1, 4 y(x) = C1(1-x2) + C2(x2-x4) R(xi, C1, C2) = 1-(1+xi)C1+(2-11xi2-xi6)C2 I = N. (1 - (+ xi) C1+ (2-11xi-xi) C2]  $\frac{\partial I}{\partial C_{i}} = \frac{\partial I}{\partial C_{i}} \frac{(1 - (1 + x_{i}^{2})C_{i} + (2 - 1/x_{i}^{2} - y_{i}^{6}) C_{2} - (4 + x_{i}^{4})}{(4 + x_{i}^{4}) C_{1}} =$ 82 = 2 = [1-(1+xi 1c1+12-11xi xi 6)c2). (2-11xi xi 6) ]=0  $\alpha_{i} = -(1+\chi_{i}^{H})$ Bi= (2-11x2 - Xi)  $\sum_{i=1}^{N} \alpha_i + c_1 \sum_{i=1}^{N} \alpha_i^2 + c_2 \sum_{i=1}^{N} \alpha_i^2 p_1 = 0$ BU+CI XIBI+CZ Pi=0 Pemale energy, nearment K=0, 4, 1, 3 4.870 C1 + 3. 243 C2 = 4.383 3. 273 C1 + 25.366 C2 = 1.813 pura. => C1= 0.932 (4(x)20,932(1-x2)-0.0474(x2-x7) C2= 0.0474