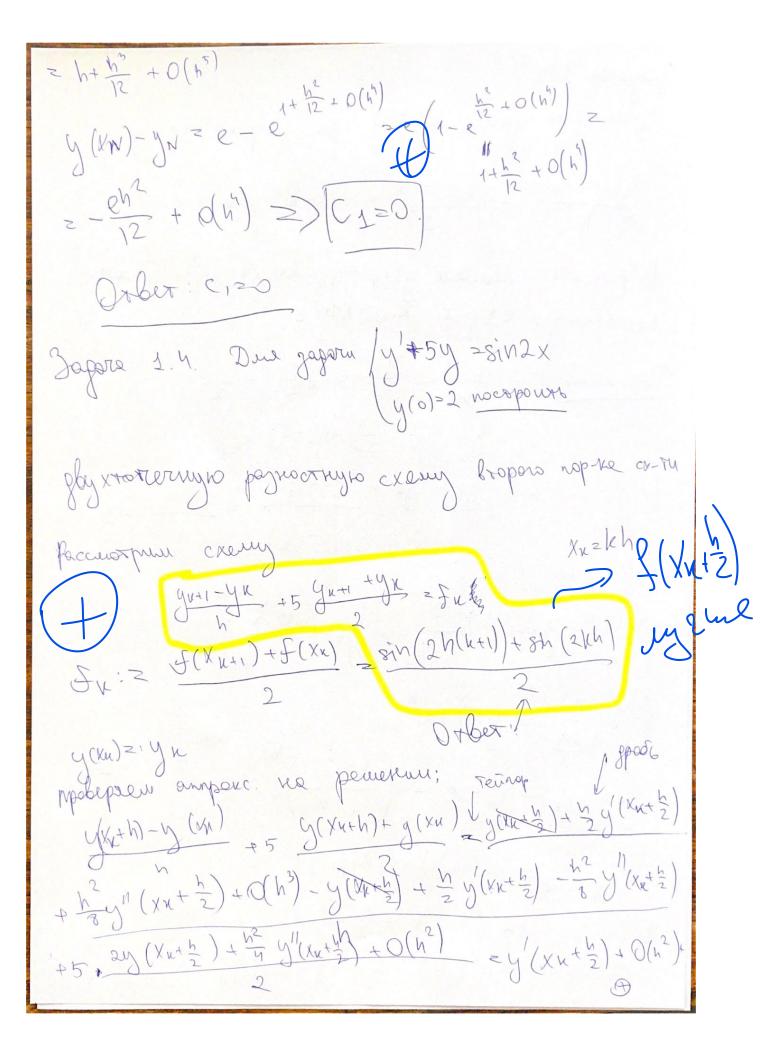
Hycuma Koncruna
flaraio: 12:40
Sofore 1-1
noctpours pul ep-2 g'(x) = f(x) pagu, exemp c ranboronner nop-voll anypore, ne peur.
2h = 2 Q1 fx + 20 fx-1+2, fx-2.
Peneure: Uznemme ungere fix ygodorba k-> K+1
Mayrum 3-24 : yk-1-yk+1 = az fk+1+20 fk+0, fk+1
$y(x_{k+h}) \ge y(x_{k}) \pm y'(x_{k}) \cdot h + \frac{h^{2}}{2}y''(x_{k}) \pm \frac{h^{3}}{6}g'''(x_{k}) + O(h^{4})$ $f(x_{k} \pm h) \ge f(x_{k}) \pm f'(x_{k}) h - \pm \frac{h^{3}}{6}g'''(x_{k}) + O(h^{4})$ $[y]_{h} \ge \left(\frac{y(x_{0})}{y(x_{0})}\right) + \frac{f(x_{k})}{2} + \frac{h^{3}}{6}g'''(x_{k}) + O(h^{4})$ $\int (y(x_{0})) + \frac{f(x_{k})}{2} + \frac{h^{3}}{6}g'''(x_{k}) + O(h^{4})$ $\int (y(x_{0})) + \frac{f(x_{k})}{2} + \frac{h^{3}}{6}g'''(x_{k}) + O(h^{4})$ $\int (y(x_{0})) + \frac{h^{3}}{6}g'''(x_{k}) + O(h^{4})$ $\int (y(x_{0})) + \frac{h^{3}}{6}g'''(x_{0}) + O(h^{4})$ $\int (y(x_$
[y] h = (y(xx)) 1 f(xx) = fx (xx) = fx (x
2) y(xx+h) -y(xx-h) 2 a, f(xx+h) 2 a o f(xx) + a, f(xx-h)
$\frac{1}{3} \int_{-\infty}^{\infty} \frac{1}{3} \int_{$
$ \Theta(a_{1}-a_{-1})hf'(xn)+(a_{1}+a_{-1})\frac{1}{2}f''(xn)+(a_{1}-a_{-1})\frac{1}{6}f''(xn)\theta $ $ \Theta(a_{1}-a_{-1})hf'(xn)+(a_{1}+a_{-1})\frac{1}{2}f''(xn)+(a_{1}-a_{-1})\frac{1}{6}f''(xn)\theta $

y (xx) + 6 y" (xx) + O(h") = (e,+0,+0, 1) f(xx) + (e,-0,) hf(xx) + (e,+0,) \frac{h^3}{6}f(x) ampone. re penerun = 5 y (xx)= f(xx) 25 Barmen journale H = 5 911251 njupobruece woopp. upu coorb. upousboguax 1 = 2 0, + 0-1 21-0-120 Orbet: 90=5, 9,=9,= 6, p=4.

Sapora 1.2. Ucuezobarto ycrairuboirs paznocrusiu exella θ yk+1 - yk + (1-θ) yk-yk-1 = fk ημ Θ∈[0,1] Penerues 8 (1x1 1x) + (1-0) (1x-1x) 20 g (h_n) + (1-0)(h-1) =0 05 (1-4) + (1-0) (n-1) =0 17 N-79) h 0 m2 - 0 m + (1-0) m + 0-120 Mm 050: N57 >> not xobux 0 = 0: D= (1-20) - 40(0-1) = 1-40+48-48-48-48 fls,22 20-1 ± 1 20 1 20-2 0-1 70 = 0-1 mm 10-1 21 (5) -1 5 0-1 51 (1-1) 51 Ju yoran uboca (1) (3) 05 1 526 63 Q 2 1 Orber: 0 = 2050[=:17

Jagara 1.3. Due J-a dsa 1 10057 baconosbun creen JK41-JK = JK41 +JK 1 40=4, K30 B pay vom. sumbru y(XN)-y N = C/h+c2h²+..., navitu noctosuryo e1 per SCN=Wh=1. Jun - fr = gran = gr feurenne: $\int_{X+1} \left(\frac{1}{h} - \frac{1}{2} \right) = \int_{X} \left(\frac{1}{h} + \frac{1}{2} \right)$ gk+1 = gk - (1/2) = 1+ 2 => $\left(\frac{1}{h} - \frac{1}{2}\right)$ $\left(-\frac{h}{2}\right)$ y = y = y = x $y(x) = e^{x}$ $= y(x_{N}) - y_{N} = e^{-\left(\frac{1+\frac{h}{2}}{1-\frac{h}{2}}\right)^{\frac{2}{h}}} = e^{-e^{\frac{h}{h}} \frac{h}{1-\frac{h}{2}}}$ $= e^{\frac{1}{h} \ln \left(1 + \frac{h}{2}\right) - \frac{1}{h} \ln \left(1 - \frac{h}{2}\right)}$ $l_{m}\left(1+\frac{h}{2}\right)-l_{m}\left(1-\frac{h}{2}\right)=\frac{h}{2}-\frac{1}{2}\left(\frac{h}{2}\right)^{2}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{4}+\frac{1}{3}\left(\frac{h}{2}\right)^{2}-\frac{1}{4}\left(\frac{h}{2}\right)^{2}+\frac{1}{4}\left(\frac{h}{2}\right)^{$



@5y(xx+2) = f(xx+2)+1.0+0(h2)
tanzun:
$y'(\chi_{u} + \frac{h}{2}) + 5y(\chi_{u} + \frac{h}{2}) + 0(h^{2}) = f(\chi_{u} + \frac{h}{2}) + 0(h^{2})$ $= f(\chi_{u} + \frac{h}{2})$
z f(Nu+ 2)
t.u. ampone. La pen.
>> anyouc. w pem, e nop-van O(h²)
Tipolepun $2-y$ craimboors. $3y = y^{n} > 1 $ $y = 1 $

Dagora 1.5 Marponer ampone na peur 2-10 hop-12 ho vorman X020 K, 2h upaeboro Jardene u1(0)-U(0)=0 gen yp-e Eyfer ampare. possesson, van: 11-12 - 10= 5 Pemerine: Pemerine: relymonoryouts by [4] - Gh 20 (h2) (n)-u(0) - U(0)-8 = 0(n2) u(h) = u(0) + hu'(0) + \frac{h^2}{2} u''(d) + O(\frac{h^3}{2}) (u-wo: u'(0) p = u''(0) - u(0) - 8 = 0 U(0)-N(0=0 =) 2= 2 N(0) m dernous Abor 1,1(0) = Jn(0)-1 => 2 = 1/2 (5110)-1) Torgrue empore. La rep. ych. -40= 1 (2010)-1 [U] h- 4h = 0.-huo- 2 ->0, h->0 - vapany-N) Orbem: 4,-40 - 402 / (240-1) CE ne empalmence le uvore Lovey: 14:13