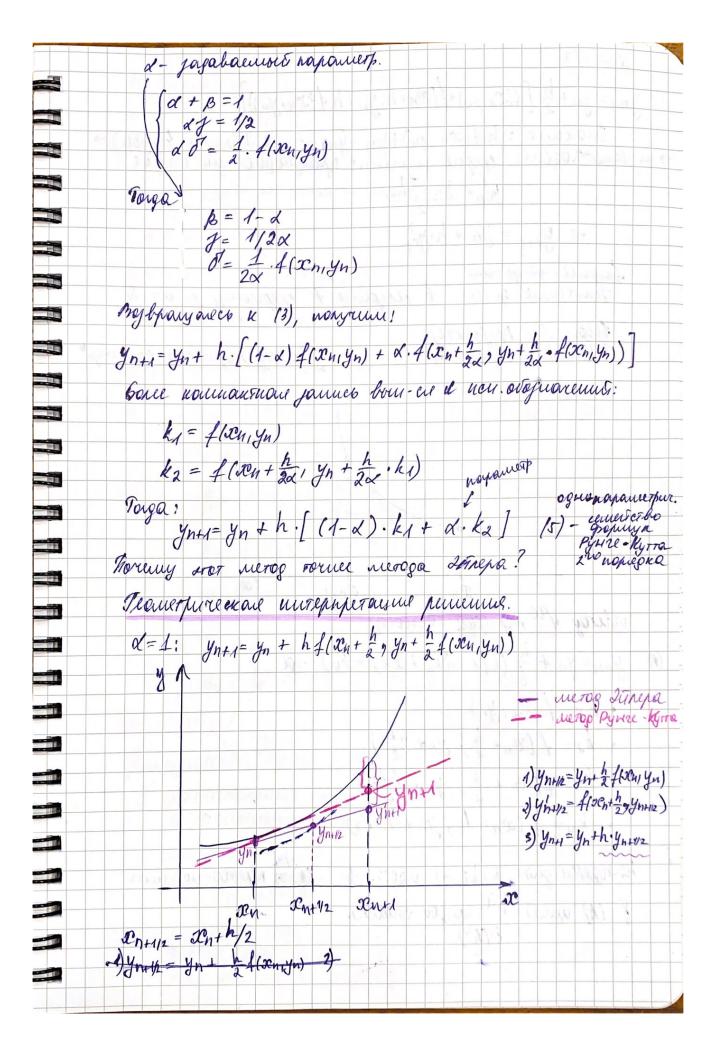


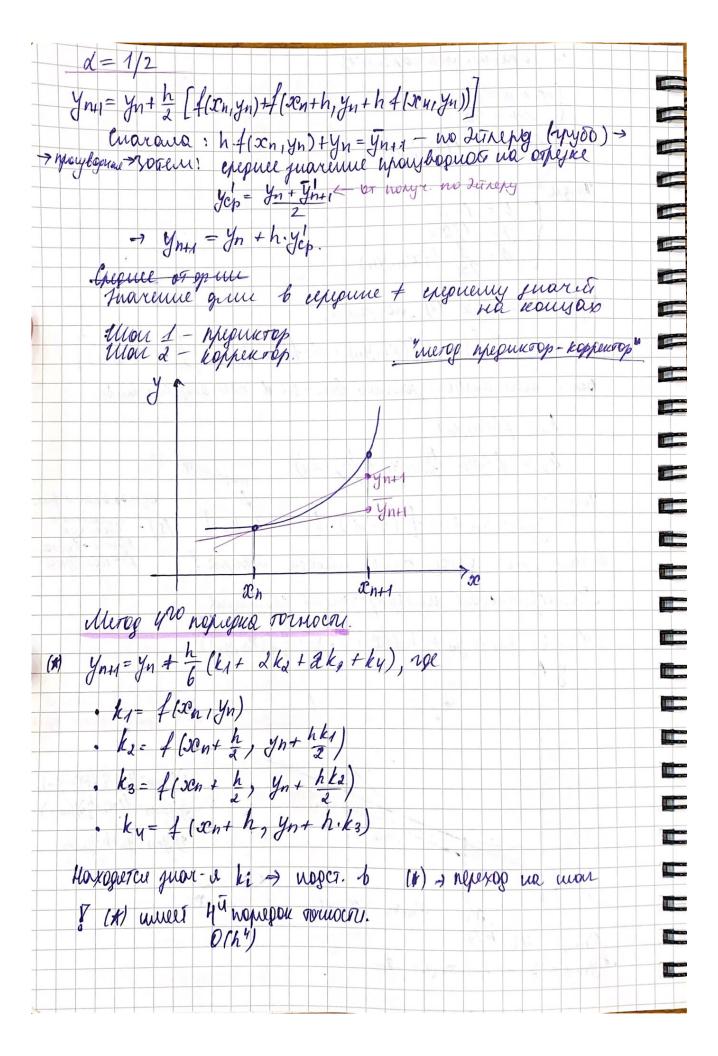
elleregor Dyure-kyrra diereg 2 noprepua vorm ou. Mn+1 = Mn + hMn + 12 Mn + 13. Mn + ... nge $U'_n = f(x_n, u_n)$ $u''_n = \frac{d}{dx}(u'_n) = \frac{d}{dx}f(x_n, u_n) = f_{x_n} + f_{x_n} \cdot u_x)|_n = f_{x_n} + f_{x_n} \cdot u_x|_n = f_{x_n} + f_{x_n} \cdot u_x|_n$ "Подключине" анаганное с Ип" - метод Рукте - Кута 220 nopilora Pormocoro - h3, ma ortegne - h) $y_{n+1} = y_n + h + f(x_n, y_n) + \frac{h^2}{2} \cdot (f_x + f_y \cdot f) |_n$ (1)

Punemue paccu. na ma. xpubais $\Rightarrow y_1$ gab. of $x_0 \Rightarrow 70$ xare spourtoqual Famenum y_n'' paymocrious anamoraus: $y_n'' = f(x_i, y_i) - f(x_i, y_n) = f(x_i + y_i) + f(x_i, y_n + \delta \cdot h) - f(x_i, y_n)$ 8, 2 - agrencas eup-10 (row, voos bouxopus 2 4 ugs rous qu). (2) 7 (1): ynu = yn + h. f(xn, yn) + h. f(xn+8h, yn+8h) h. f(xn, yn) yn+1= yn+ h. [B. f(xn, yn) + x. f(xn+gh, yn+d.h)] (3) · Menzl: x, B, f, F Papionemu de manaemor le enoskax l'prep: Yn+1= yn+ h. { B. f (In, yn)+ & [f(In, yn)+ fx 8. h + fy. oth] } yn+1= yn+ hpf(xn,yn) + d.h. f(xu,yn) + d.f. h for + d.f. h. fu yn+1 = yn + h (B+d) . f (xn, yn) + x ph 46 + x 8 h . fr 14) Chabiline 14) e 12):

Novigen Bornoer

Cha nongrena jarres orbacorbanne crai. Troom (4) repense 6 (2), near, wroter x+ B=1 , x 7= 1, x 8= 2 f (xcn, yn)





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Overyence (un cuci y 2 yp-ii)
          \begin{cases} u(x) = f(x, u, v) \\ v(x) = \psi(x, u, v) \end{cases}
U(x0)= 1/1
              V(20)= 42
              a \le x \le b
            Conbercabue: Un -> yn, Vi -> 2n.
          yn+1= yn+ 6 (k1+ dk2 + 2k3+ k4),
           2n+1 = 2n+ h (91 + 292+ 293+ 94),
                  • L_1 = f(x_n, y_n, \pm i) , g = \varphi(x_n, y_n, \pm i)
          nee
                  · k = f (xu+ h, yn+hk1+2n+h91),
                      92=4(2n+h, yn+hk1, 2n+h91)
                   • k_3 = f(x_n + \frac{h}{2}) y_n + \frac{hk_2}{2}, 2nd \frac{hg_2}{2}
                      93=4(x1+1, y1+ hkz, 21+ hgz)
                   · ky = f (xn+h, yn+hk3, 2n+h93)
                      94 = 1 (xu+h, yu+hk3 + 2n+h93)
           Henry yecha Pyrre-kyrra:
             1) угавинанный простой ордина при
             2) y-ja row, 400 comos abuse, ngrexos y 1. h. 8 v. n+1 ocy ys coloniseres ja coporo grunc.
                 provenue cettruois grun, marmant e 1 is
bornemeter ho opnos u rois nel grophigne.
(200- other la moromarobour merogol)
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