4"-xu'-e=u=-=-1,'-1<x<1,'u'(-1)=1,u'(1)=0 Uexognoe ypabuenne uneer es nopepous u"~ o(h2), u'~ o(h). => o(h). Han me nymen U', rodo u' ~ O(h'). 3anumen pagnomenue H(x,-), a(xu+1) 6 oupernoon Torum xu: u(xu+1)= u(xx)+ hu'(xx)+ b2 u'(xu)+0000 $u(x_{k-1}) = u(x_k) + hu'(x_k) + \frac{h^2}{2}u''(x_k) + O(h^2)$ B3 el nonypagn. 30020: Monyrum: $u'(x_n) + O(h^2) = u(x_{k+1}) - u(x_{k-1}) = 0$ Ocnobuyio romero nun epenanu pomari $u'(x_n) = 0$ (hi) $u'(x_n) = 0$ ocnobuyio $u'(x_n) = 0$ Mycro yx(-1) = 3 y(-1) + po , yx(1) = 0, y(1) + p1. Ph(-1) = 4x(-1) - Bu(-1) - Po = u' + \frac{h}{a}u" + O(h^2) - Fo u\mathbb{E} - Po = = $\left[u'(-1) = 1 \right] \left[u_{3} \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \left[u_{3} \right] \left[u_{3} \right] \left[u_{3} \left[u_{3$ $-\overline{G_0}U - \overline{V_0} = 4 + 0.025(\frac{1}{2} - 1 + e^{-\frac{1}{3}}U - 1) + O(h^2) - \overline{G_0}U - \overline{V_0} =$ = $U\left(-\frac{1}{60} + 0.025e^{-\frac{1}{3}}\right) + \left(1 + 0.025\cdot\left(-\frac{3}{2}\right) - 1/6\right) + O(h^2)$. OTCHOPA umeem: $\vec{\theta}_0 = 0.025e^{-\frac{1}{3}}$, $p_0 = 0.9625$. Anaronimo gra 2 (1) = [u'(1) = 0 (no grabus)] = ux - 5, u-F,

Ananomimo gna $\frac{\partial}{\partial x}(1) = \frac{\partial}{\partial x}(1) = \frac{\partial}{$