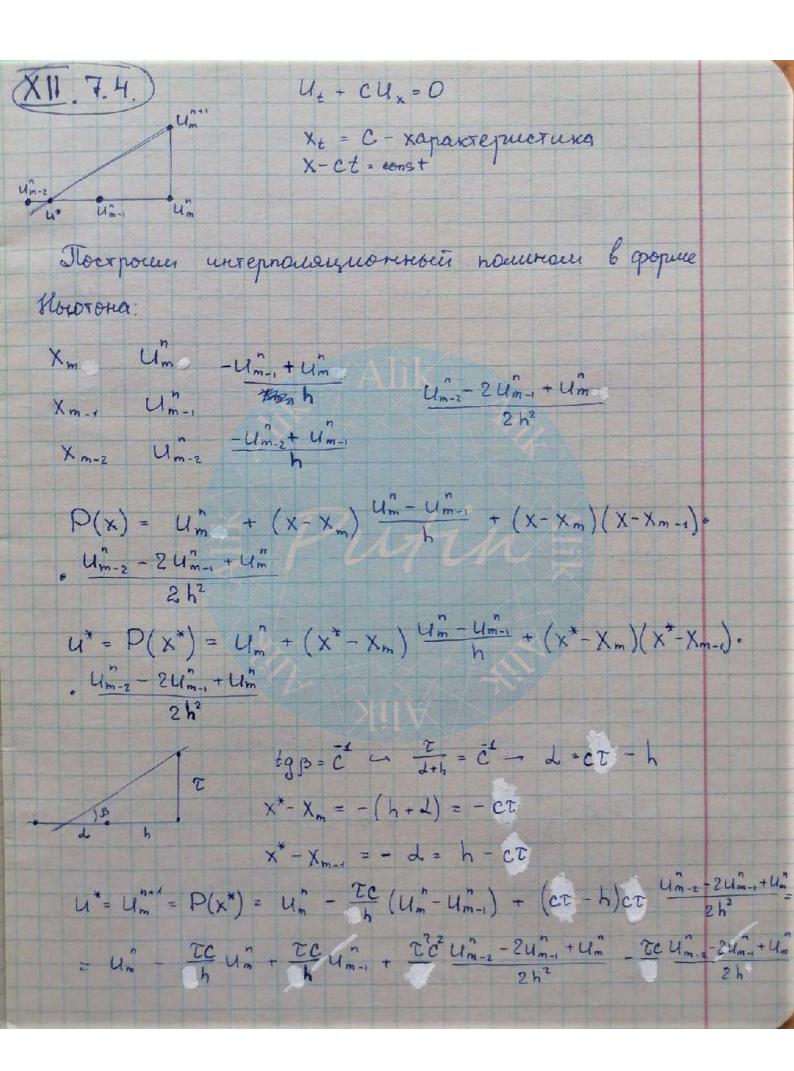


Значит шаксинаного возможност порадок аптрока ecté 2. Thouoncum S=1. Torga  $\chi_{2} = \frac{T^{2}c^{2}}{2h^{2}} - \frac{CT}{2h}$ ,  $\lambda_{2} = \frac{T^{2}c^{2}}{2h^{2}} + \frac{CT}{2h}$ ,  $\beta = 4 - \frac{T^{2}c^{2}}{h^{2}}$ . Bropod hopagox annous.

Ludo:  $\frac{U_m^{n+1} - U_m^n}{T} + \frac{U_{m+1}^n - U_{m-1}^n}{2h}c + \frac{U_{m+1}^n + U_{m-1}^n}{2h^2}c^2 = 0$ . Ucauegyeur na exogunocto:  $U_m^n = \lambda^n e^{ikmh}$   $\lambda^{n+1} e^{ikmh} - \lambda^n e^{ikmh} - \lambda^n e^{ik(m+1)h} - \lambda^n e^{ik(m-1)h}$   $\lambda^n e^{ik(m+1)h} - \lambda^n e^{ik(m-1)h}$   $\lambda^n e^{ik(m+1)h} - \lambda^n e^{ik(m-1)h}$  $\frac{\gamma-1}{\tau^2} + \frac{e^{ikh} - ikh}{2\tau h} + \frac{e^{ikh} - ikh}{2h^2} + \frac{e^{ikh} - ikh}{2h^2} = 0$ 1-1 + i ( sinkh c + sinkh c2) = 0 7-1 + i sin(kh) ch (++ ch)=0 171 = 1 = isin(kh) ct (+ c) <1 - yeu-ue T.K. mogget 37000 kanens. rucus 21 cs ex-cres ret



Joeod raggen:

$$U_{m}^{n+1} - U_{m}^{n} = -\frac{\tau_{c}}{h}U_{m}^{n} + \frac{\tau_{c}}{h}U_{m-1}^{n} + \frac{e^{2}\tau^{2}}{h}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} + \frac{\tau_{c}}{2h^{2}}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} + \frac{\tau_{c}}{2h^{2}}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} + \frac{\tau_{c}}{2h^{2}}U_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n} - \frac{e^{2}\tau^{2}}{2h^{2}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n}}{2h^{2}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - 2u_{m-1}^{n} + u_{m}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n}}U_{m-2}^{n} - \frac{u_{m-2}^{n} - u_{m-2}^{n}}{2h^{2}}U_{m-2}^{n$$

Mougralus, vo yp-ue, not. annporcuus-cs: 4 = 6 y"xx Top. annposec. O(2) + O(h2), norpeum. \(\frac{7}{6}y''' + 6\frac{7}{h}y'' = \delta Ucauegyeur ma yerowurboert:

y'' = \name 'e  $\frac{\lambda - \frac{1}{\lambda}}{2\tau} = 6 \frac{e^{4} - \lambda - \frac{1}{\lambda} + e^{4}}{h^{2}}$ (2-1/2) = 6 (e'+ e')  $\eta^{2}\left(\frac{1}{2\tau} + \frac{1}{h^{2}}\right) - \frac{26\lambda}{k^{2}}\cos\varphi + \frac{1}{k^{2}} - \frac{1}{2\tau} = 0$  $D = \kappa^2 - HC$   $\lambda = \frac{\kappa \pm \sqrt{\kappa^2 - HC}}{2} \qquad C_1 = \frac{h^2}{\tau}$  $|\eta| = \left| \frac{6\cos\varphi}{1 + \frac{C_1}{2}} \pm \sqrt{\frac{6^2\cos^2\varphi}{(1 + \frac{C_1}{2})^2} - \frac{1 - \frac{C_1}{2}}{1 + \frac{C_1}{2}}} \right| =$  $= \frac{6|\cos \varphi|}{1 + \frac{C_1}{2}} \left| 1 \pm \sqrt{1 - \frac{1 - \frac{C_1^2}{4}}{6^2 \cos^2 \varphi}} \right| \leq 1.$ For est Babucut or napamet pob 6 4 C1 = 12.

Somewhat  $y = y^{n+1}$ . Thoughous:

4 $t \cdot y'_t - 2t^2 y''_t + \frac{2}{3}t^3 y'''_t - 2t y'_t + 2t^2 y''_t - \frac{4}{3}t^3 y'''_t + O(t'')$   $= \frac{2t}{5} + \frac{2t}{5} + \frac{4}{5} + \frac{2t}{5} + \frac{4t}{5} + \frac{4t}{$