$$\frac{\partial}{\partial t} = \frac{1}{2}(b, u) \qquad \frac{\partial}{\partial t} = \frac{1}{2}(b, u) = \frac{1$$

$$\frac{y_n - y_n + \chi i_n - \chi^2 i_n + O(\chi^2)}{2} = \frac{3}{2} \left(\frac{1}{2} + \frac{2}{9\eta} \ln \left(-\chi \right) + \left(-\chi i_n + \frac{\chi^2}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \right) - \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} i_n + O(\chi^2) + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{9\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2) \right) \frac{3}{\eta} \ln \left(-\chi^2 + \frac{1}{2} i_n + O(\chi^2$$

$$-\frac{1}{2}\left(f_{n}-2\tau\frac{\partial f}{\partial t}-\frac{\partial f}{\partial u}-2\tau i_{n}+2\tau^{2}i_{n}+O(\tau^{2})\right)+O(\tau^{2}+...)$$

$$\frac{ii_n - \frac{2i}{2}ii_n + O(z)}{7k} = \frac{1}{n} - \frac{1}{2}i \frac{2}{2}in - \frac{1}{2}i \frac{2}{2}ii_n \frac{2}{2}i \frac{2$$

$$ii_n = f_n - \frac{\tau^2}{4} ii_n \frac{\partial f}{\partial u} u + O(\tau^2)$$

 $in = f_n - \frac{\tau^2}{4}ii_n \frac{\partial f}{\partial u} u + O(\tau^2)$ =) et opsgok annpokumænne klagpamernens.

$$\frac{3}{2}u_{n-1} = u_{n-1} + \frac{1}{2}u_{n+1} = vd_{n}$$

$$u_{n-k} = u_{n-1} - vu_{n-k} + \frac{1}{2}vu_{n+1} + O(v^{k})$$

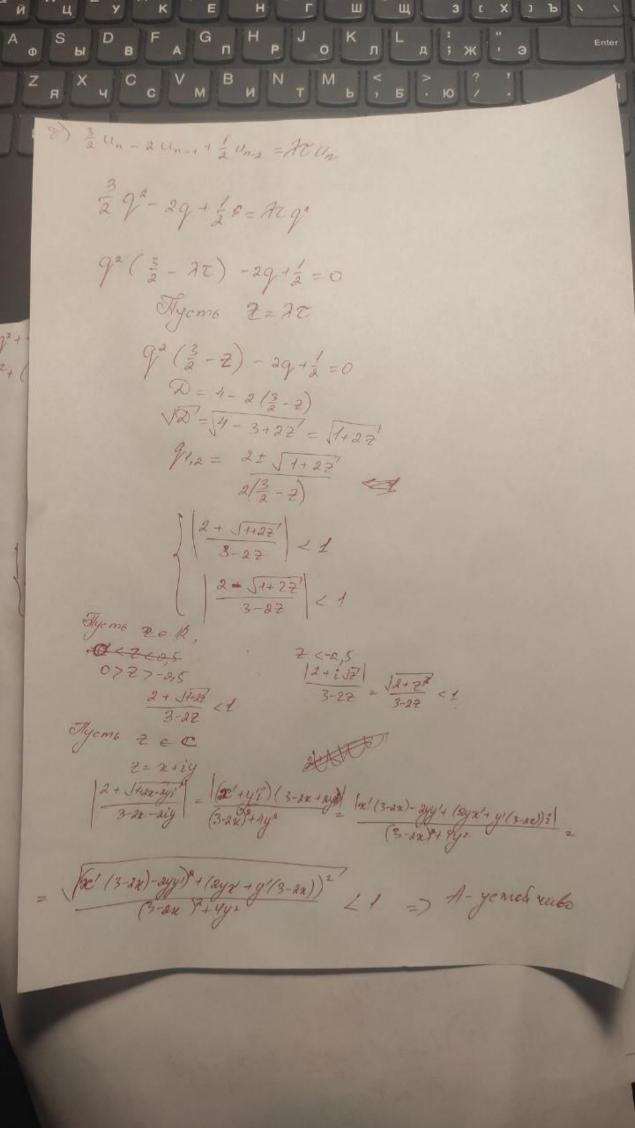
$$\frac{3}{2}u_{n-1} - 2(y_{n}^{2} - vu_{n+1} + vu_{n+1}^{2} + O(v^{k}))$$

$$\frac{3}{2}u_{n-1} - 2(y_{n}^{2} - vu_{n+1}^{2} + vu_{n+1}^{2} + O(v^{k}))$$

$$\frac{3}{2}u_{n-1} - 2(y_{n}^{2} - vu_{n+1}^{2} + vu_{n+1}^$$

Un - Un-1 = 0 un = 9" $q^2-q=0$, q=1=) CXELLEA 161. MYLLE TEMPORTULES. 3 Un - 2 Un-1 + & Un-2 = 0, Un = 9" (2) 3 9"- 29"+ 19"=0 392-29+2=0 $\frac{4q+1=0}{3(q-1)-(q-1)=0}$ $\frac{(q-1)(q-\frac{1}{3})=0}{[q=\frac{1}{3}]} \frac{|q| \le 1}{|q| \le 1}$ Sevenos $\frac{(q-1)(q-\frac{1}{3})=0}{[q=\frac{1}{3}]} \frac{|q| \le 1}{[q-\frac{1}{3}]}$ Sevenos $\frac{(q-1)(q-\frac{1}{3})=0}{[q-\frac{1}{3}]} \frac{|q| \le 1}{[q-\frac{1}{3}]}$ 392-49+1=0 (3) Un +4Un-1-5Un-2 20, Un = 9" 92+49-5=0 191=1 192=-5 - 1921>1 => Crana ne 26n-cre veyn6 yematrenses.

Un - Un -1 = 3 22 Ung - 1 AUmat 9-9=3729-172 9°-9(1+3/22)+2/2=0 Tyonis 25 2 2 2272 $q^2 - q(1+2) + \frac{1}{2}2 = 0$ $D = |1+2|^2 - 22$ $D = |1+2|^2 - 22$ 91 = 1+2- 50+2)2-22 191/11 ga = 1+7+(1+32-22) 19/2/21 $\begin{cases} |1+2-\sqrt{(1+2)^2-22}| < 2 \\ |1+2+\sqrt{(1+2)^2-22}| < 2 \end{cases}$ Cuu Gumo 7 = -3+ 2:0 1-1=3-5101/2 => ecm6 7: Ret <0 we ygilen rep-by



6) 92+49-54=479+272 92+ (4-492)9-5+02220 Q = 46 (1-20)2+20-82=16-322+22+20-82= $\sqrt{D} = \frac{2^2 - 402 + 36}{2^2 - 402 + 36}$ 91,2 = 4(1-7) + (23902+36) 1 4-2+ 122-402+36 22 1 4-2-522-402+36 1 22 При 2=-15 Попуши 19-18,42, 119-18,42/72 => нет А-уст-пи

(4) du = f(u), flu)= 1 UL+1 = U; + TU; + Tui; + O(zi) ce = fing, fing= f(uin) = f(ui+rii+="i"+="i"+0(2"))= = fe + of (\(\tau_i + \tau_i + O(\tau)) = = fi + (- [1]) (zi; + zzi; + O(zz)) $-\frac{1}{4} \frac{10}{4} + \frac{1}{5} \frac{1}{4} \frac{1}{4}$ $u_i + \frac{\tau}{2} u_i + O(\tau) + \frac{1}{u_i^2} (\tau u_i + \frac{\tau}{2} u_i + O(\tau)) = f_i$ ing (+ 2)+ in 2 + O(2) = fi => nopogot amporennamen

ь, ь . ю ?