Luba B y (0)=1 Ilburi vemoy yn+1= yn+ hayn=yn(1+ab)=(1+ah)n+1 Typeryux y(f) na Enh? -lean? yn=(1+ah)=>11-11=mAx 1 (1+ahln-e 1 -+ 0=> cocaquea Onpegeuer nopregon? e -e aean +rn => hrn=e (en ah-1)=>

2) Herelnew vernog Dureper yn+1=yn+hayn+1=>yn+1=(1+ha)n" $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - 0 = r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - 11 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r coragner$ $11 \frac{1}{(1-ha)^n} - e^{hn}11 = m_{AX} 1 - r$ 3) Memog mpaneyuu yn+1-4n = a4n+1=> yn+1= (1+ah+ a2h2)n+1 11 (1-ah = 2) - eahn 11 = max 1-11-1 - 0 => crospin $\frac{a(n+1)h}{e} - eahn \qquad a(n+\frac{1}{2})h \qquad ahn \qquad ah \qquad eff) = 2$

N 10.2 a $\begin{cases} \dot{V} = V + W & \int V(0) = 1 \\ \dot{W} = V^2 - W^2 & \partial W(0) = 2 \end{cases}$ 05 x 51 U= (V) = (V+W) - (0)= (1) Memory Dersepa: Un. = Un - h T (En, Un) => $= \frac{1}{2} \left(\frac{V_{n+1}}{W_{n+1}} \right) = \left(\frac{V_n}{W_n} \right) + h \left(\frac{V_n - W_n}{V_n^2 - W_n^2} \right)$ N 10.3 dy = ysinx y (0)=0 y'(0)=1 0= X=1 { y = 2 } y (0) = 0 2 = y s int 2 (0) = 1 a) [y=2 05/51 $\begin{pmatrix} y_{n_1} \end{pmatrix} = \begin{pmatrix} y_n \end{pmatrix} + \chi \begin{pmatrix} z_n \\ y_{n_s,n_{n_1}} \end{pmatrix}$ $\begin{cases} 3 & y_{n+1} - y_n \\ y_n = y_{n+1} - y_n \\ y_n = y_n = y_{n+2} - 2y_{n+1} + y_n \end{cases}$ y = ynsinfn. Yn+L = 24n+1 + yn(72sinzn-1)

or 9.11 Unes . Un . h & (In Un) - sawep Unit = Un = 1 (1, Un) Unit = Unit + 1 (thing, Unit) = Un + 2 + (to, Un) + 2 + (to + 2, Uni · 5 1(En, Vn) Peverapeper: Vn+1 = Vn+1 + Vne + Vn + h ff & h Unit (to Va) Tadeuya Frymrepa;