IOM Exercise 8 -> backward in space, $U(x - \Delta x) = U(x) + \frac{\partial u}{\partial x}(-\Delta x) + O(\Delta x^2)$: U(x-1x) = U(x) - 24 (Ax) + O(Ax2) 50 <u>Du</u> = Ucx - Ucx - Dx + O/2x and DU Discretization 92 $x_i = \infty_0 + i \Delta x$ $t_n = t_o t_n \Delta t$ so U: = U(x;tn) $\frac{1}{1} \frac{U(x - \Delta x) = U_{i-1}^2}$