7(w. 1) = # 2 & (a' y') : - in Z. (y'doga' + (1-y') log(1-a')) when a = i = 1+ e-wx $\frac{\partial a}{\partial w^{i}} = \frac{1}{(1+e^{-w^{i}x})^{2}} \cdot e^{-w^{i}x} \cdot (-x_{i}) = a^{2} \cdot e^{-w^{i}x} \cdot x_{i}$ $= a^2 \frac{1-q}{a} \chi_i = a(1-a)\chi_i$ e-10/2 1-9 1 2 /4 da 200; + (1-4) - 1-a (-20) in Z/y i (a(1-a)) xi + (1-y) - (-a(1-a) xi)] - in Il y (1-a) x; - (1-y) ax; 1 [- 4x; + yax; + ax; - yax;]