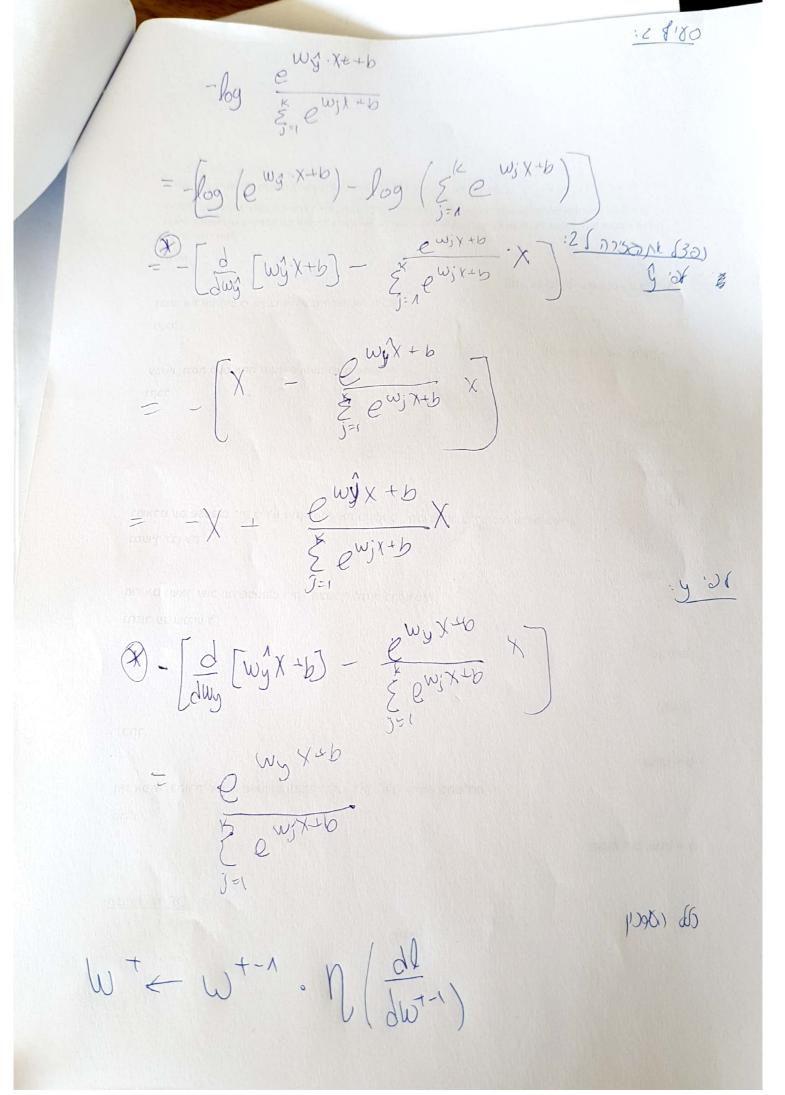
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a) 
$$P(y=y|x=x) = \frac{e^{wixt+bi}}{\sum_{j=0}^{k} e^{wjxt+bj}}$$
  
b)  $\sum_{j=0}^{k} -\log\left(\frac{e^{wixt+bi}}{\sum_{j=0}^{k} e^{wjxt+bj}}\right)$ 



-log (e Wýx+b) - log (E e Wjx+b)) E wix +b

Stewjx+b

J=1

6 08 00758 83NJ -1+ Exewixib 11)98/1, b+ < b+ -1 + \( \frac{\xeta\_{\text{i=1}} \equiv \text{with}}{\xeta\_{\text{j=1}} \equiv \text{with}} \)

