3 agara 18.] Tycho $\sigma(\Xi) = \frac{1}{1+e^{-\Xi}} - curuouga$ 3 $T_{polepum_{6}}: \sigma^{2} = \sigma(1-\sigma) = Z$ $\sigma'(Z) = (1+e^{-Z})^{2} = (1+e^{-Z})^{2}$ K= $O(z) \cdot (1 - o(z)) = 1 \cdot (1 - 1 + e^{-z}) = 1 \cdot (1 + e^{-z}) = 1 \cdot (1$ Omeroga $\sigma'(z) = \sigma(z) \cdot (1 - \sigma(z))$ Задача 19 Задача кнассификации К кнассов [1,2. к] Последний сной нейросети вычисыет зоветах функция. gk (S1, S2... Sn) = - Softmax-apyringena B karecibe nimpaga logless-qynnyus: $R^{(i)} = -\sum_{k=1}^{K} I(y^{(i)} = k) \cdot \ln g_k(S_1, S_2...S_k)$ Der-mo: $Og_k = g_k \cdot (I(k=l)-g_l)$ $\frac{\partial g_{k}}{\partial S_{k}} = \frac{\partial}{\partial S_{k}} \left(\frac{e^{S_{k}}}{\sum_{j=1}^{N} e^{S_{j}}} \right) = e^{S_{k}} - e^{S_{k}$



