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$$R^{(i)} = -\frac{K}{2} I(y^{(i)} = k) \ln g_{k}(S_{i}, S_{2}, ..., S_{k}),$$

$$ge g_{k}(S_{i}, S_{2}, ..., S_{k}) - 80ft - max qqquucuguw.$$

$$Rokayain, in$$

$$1) 2ge g_{k} = g_{k} (I(k=0) - g_{k})$$

$$2ge g_{k}(S_{i}, S_{2}, ..., S_{k}) - 80ft - max qqquucuguw.$$

$$Rokayain, in$$

$$1) 2ge g_{k} = g_{k} (I(k=0) - g_{k})$$

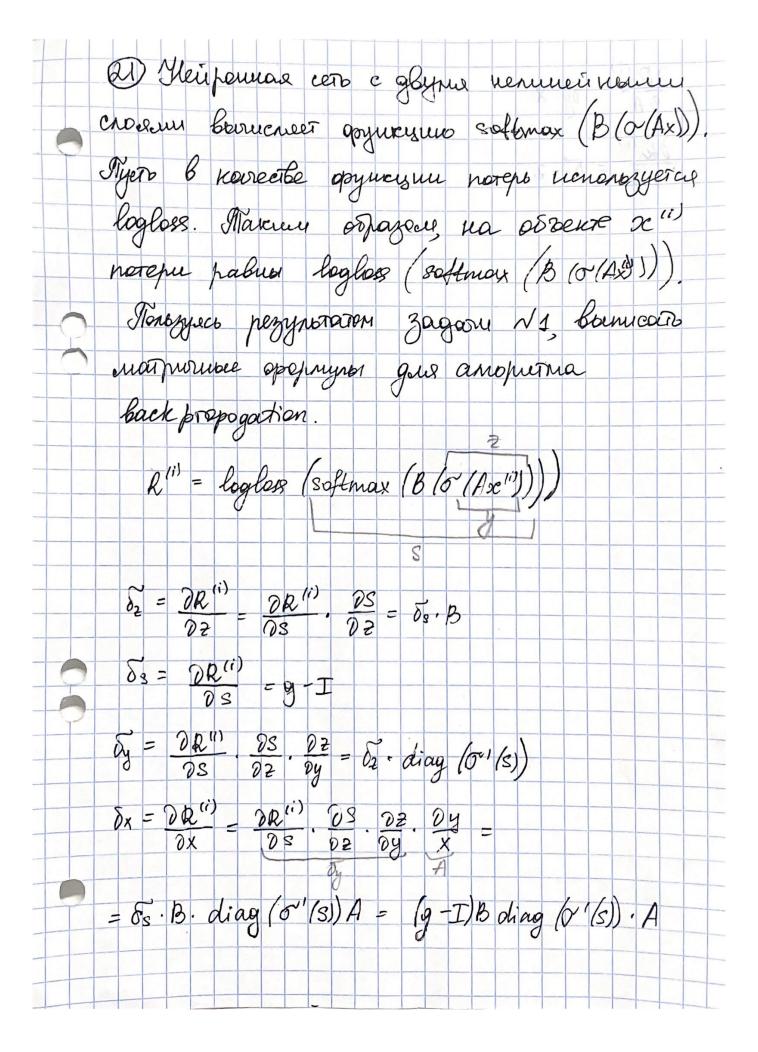
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$$2ge g_{k}(S_{i}, S_{2}, ..., S_{k}) - g_{k}$$

$$= g_{k} \cdot (I(k=0) - g_{k})$$

2) 
$$\frac{\partial R^{(i)}}{\partial g_{i}} = \frac{I(y^{(i)} = k)}{g_{k}}$$
 $\frac{\partial R^{(i)}}{\partial g_{k}} = \frac{\partial}{\partial g_{k}} \left( -\frac{k}{2} I(y^{(i)} = k) \ln g_{n} \right) = \frac{I(y^{(i)} = k)}{g_{k}} \cdot \frac{1}{g_{k}} = \frac{I(y^{(i)} = k)}{g_{k}} \cdot \frac{1}{g_{k}} = \frac{I(y^{(i)} = k)}{g_{k}} \cdot \frac{1}{g_{k}} \cdot \frac{1}{g_{k}} = \frac{I(y^{(i)} = k)}{g_{k}} \cdot \frac{1}{g_{k}} \cdot \frac{1}{g_{k}}$ 



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