Lets try and compute $\frac{\partial loss}{\partial w_{ij}^1}$:

$$\frac{\partial loss}{\partial w_{ij}^1} = \frac{\partial loss}{\partial z_i^1} \cdot \frac{\partial z_i^1}{\partial w_{ij}^2} = \bigstar$$

$$\frac{\partial z_i^1}{\partial w_{ij}^2} = x_j^1 \text{ — easy :)}$$

$$\frac{\partial loss}{\partial z_i^1} = \frac{\partial loss}{\partial z^2} \cdot \frac{\partial z^2}{\partial g^1(z_i^1)} \cdot \frac{\partial g^1(z_i^1)}{\partial z_i^1} =$$

$$= \sum_{k=1}^{dim(z^2)} (\frac{\partial loss}{\partial z_k^2} \cdot \frac{\partial z_k^2}{\partial g^1(z_i^1)} \cdot \frac{\partial g^1(z_i^1)}{\partial z_i^1}) =$$