$$\sum_{i} x_{i} w_{ij} = 3j$$

$$f(z_j) = y_j$$

$$\mathcal{E}(y_j, y_j^*, y_j) = e = \sum_{j} (y_j - y_j^*)^2$$

$$\frac{\partial \mathcal{C}}{\partial y_{j}} = 2(y_{j} - y_{j}^{*})$$

$$\chi_{i} \frac{\partial e}{\partial \dot{z}_{i}} \leftarrow \frac{\partial y_{i}}{\partial \dot{z}_{j}} \frac{\partial e}{\partial y_{j}}$$

$$\frac{\partial e}{\partial W_{ij}} \leftarrow \frac{\partial \hat{g}_{ij}}{\partial W_{ij}} \frac{\partial e}{\partial \hat{g}_{ij}}$$

$$\frac{\partial e}{\partial x_i} \leftarrow \sum_{j=0}^{\infty} \frac{\partial g_j}{\partial x_i} \frac{\partial e}{\partial g_j}$$

$$\frac{\sum (\cdot)}{\sum j}$$

$$\frac{\partial e}{\partial y_j}$$

