Derivação da Regio do Guadiente Descondente:

$$\nabla E(w) = \begin{bmatrix} \partial E & \partial E & \partial E \\ \partial w_1 & \partial w_2 & \partial w_n \end{bmatrix}$$

$$W = W + \Delta W, \quad \Delta W = -7 \quad \nabla E(w)$$

Analisande para un perse Wi, podemos ver:

$$\frac{\partial E}{\partial w_i} = \frac{\partial}{\partial w_i} \pm \frac{1}{2} \sum_{d \in D} (d - y_i)^2$$

$$= \frac{1}{3} \sum_{d \in D} \frac{\partial}{\partial w_i} (d-y)^2$$

$$=\frac{1}{2}\sum_{den}^{2}2(d-y)\frac{2}{2w_{i}}(d-y)$$

$$\frac{\partial E}{\partial w_i} = \sum_{\alpha \in D} Q(\alpha - \gamma)(-\alpha;)$$

$$\Delta w := \eta \sum_{\alpha \in D} (\alpha - \psi) \pi_i$$