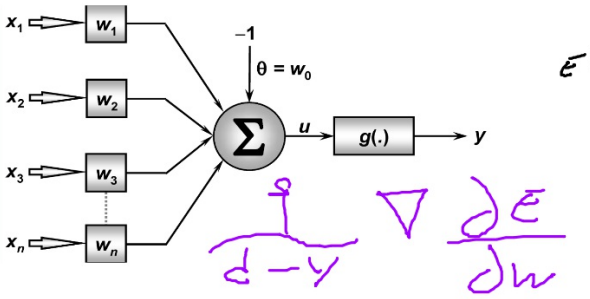
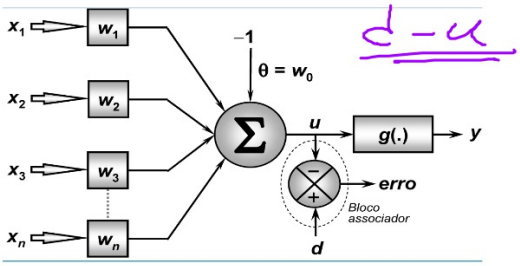


$\eta \quad \nabla \frac{\partial E}{\partial w}$

$d - y$

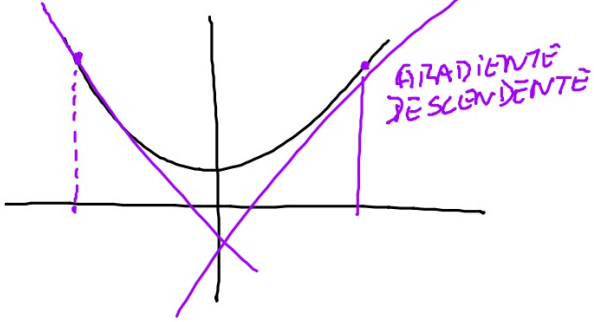


$d - u$

$ERRO = (d - y)$

$(d - g(u))$

$(d - [x_1 w_1 + x_2 w_2 - \theta])^2$



$E = (d - y)^2 \quad E = \frac{1}{2}(d-y)^2$

$E = \left(d - [x_0 w_0 + x_1 w_1 + x_2 w_2]\right)^2 = u^2$

$\frac{\partial E}{\partial u} = 2u$

$\frac{\partial E}{\partial w} = \frac{\partial E}{\partial u} \cdot \frac{\partial u}{\partial w}$

$\frac{\partial E}{\partial w} = 2u \cdot -x$

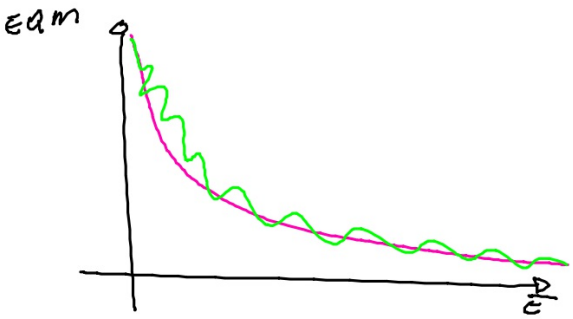
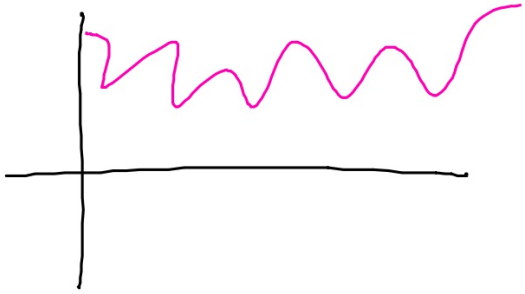
$u = d - [x_0 w_0 + x_1 w_1 + x_2 w_2]$

$= 2\left(d - [x_0 w_0 + x_1 w_1 + x_2 w_2]\right) \cdot -x$

$\frac{\partial u}{\partial w_0} = -x_0$

$w = w + \eta (d-u).x$

$= -1(d - [x^T w]).x$

$(d-u).x$

$$EQM = \frac{\frac{1}{2}\sum_{i=0}^{n}(y-u_i)^2}{n}$$