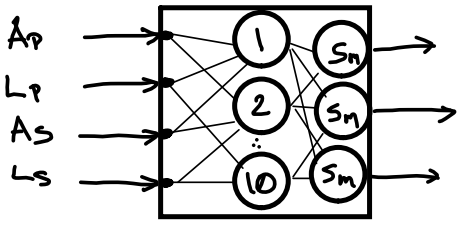


$C = 1, 2, 3$

one hot encoding

$1 \rightarrow 1,0,0$
$2 \rightarrow 0,1,0$
$3 \rightarrow 0,0,1$

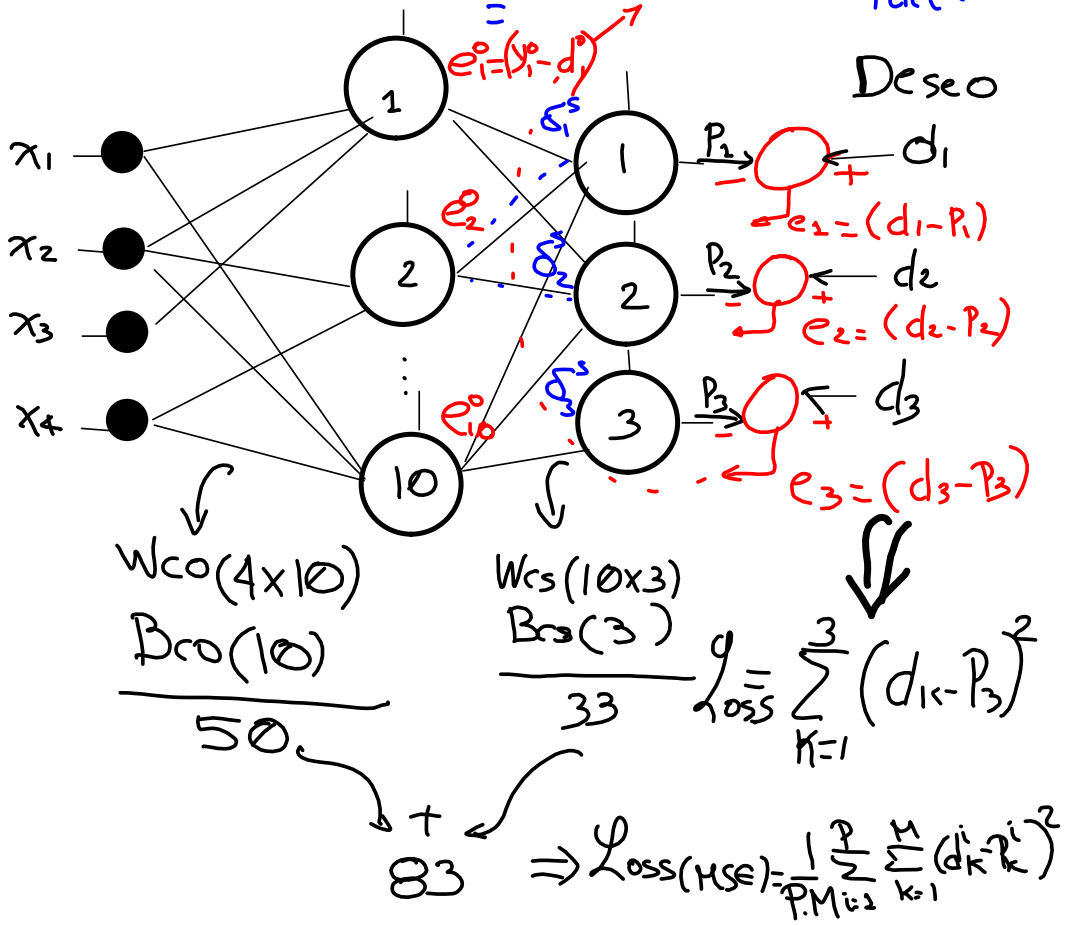
$$Softmax = \frac{e^{Netd_i}}{e^{Netd_1} + e^{Netd_2} \dots + e^{Netd_n}}$$

$$= \frac{e^{Netd_i}}{\sum_{k=1}^{M} e^{Netd_k}} \qquad \sum_{k=1}^{M} P_i = 1$$

$$y_{c1} = \frac{e^{Netd_1}}{\sum_{k=1}^{3} e^{Netd_k}} P_{c1} \qquad P_{c1} + P_{c2} + P_{c3} = 1$$

$$y_{c2} = \frac{e^{Netd_2}}{\sum_{k=1}^{3} e^{Netd_k}} P_{c2}$$

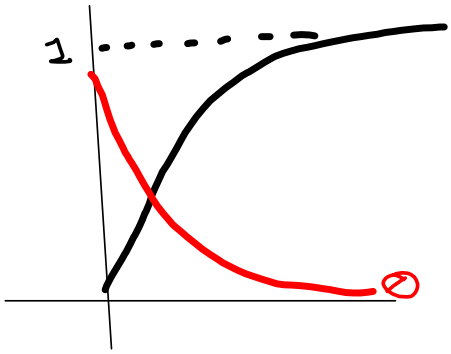
100% (150) { 70% Train (105) ; 30% Testeo (45)



$$e_2^o = \delta_1^o w_{21}^s + \delta_2^o w_{22}^s + \delta_3^o w_{23}^s$$

$$e_2^o = \sum_{K=1}^{3} \delta_K^o w_{2K}^s$$ (Backpropagation)

$$\text{Precisión} = \frac{\text{No aciertos}}{\text{No Total de Pruebas}}$$



Real \ Predicción	0	1	2	
0	16	0	0	= 16
1	0	17	1	= 18
2	0	0	11	= 11

Precision: $\frac{44}{45}$