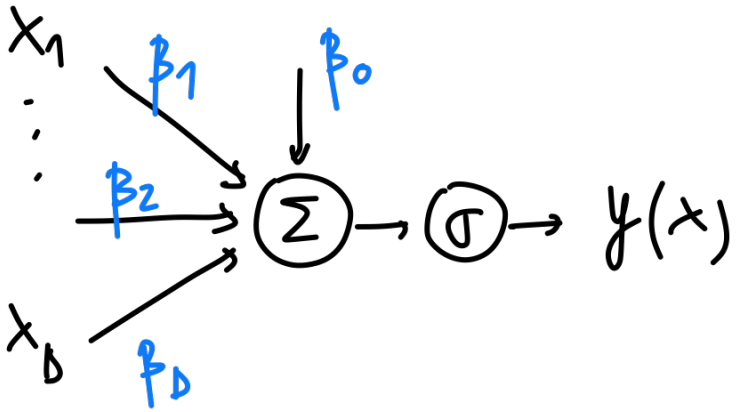
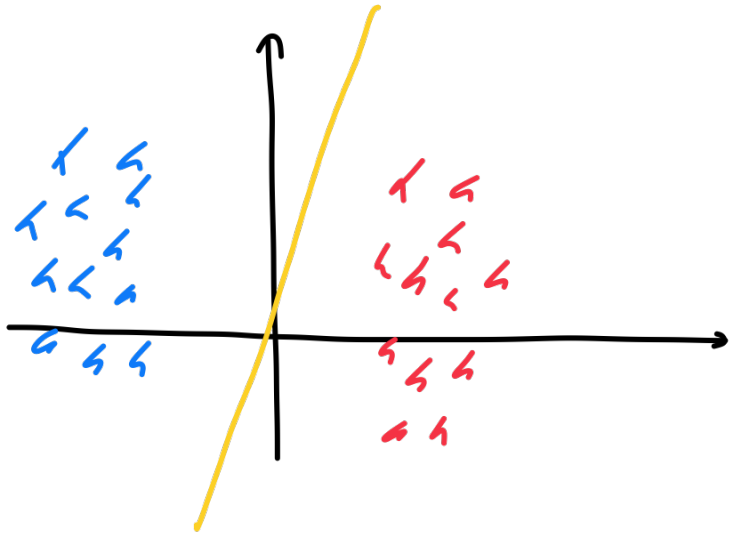
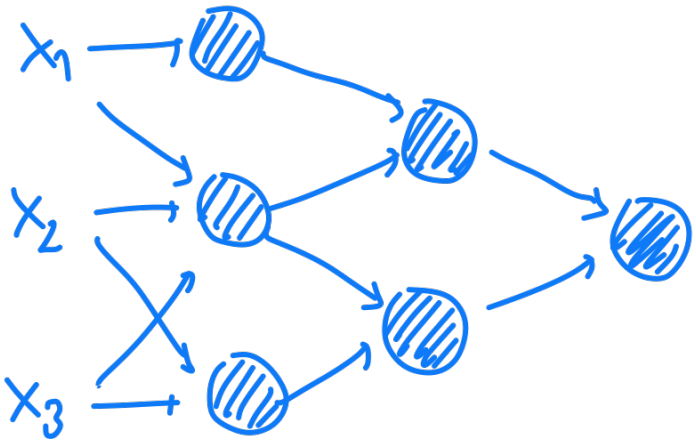
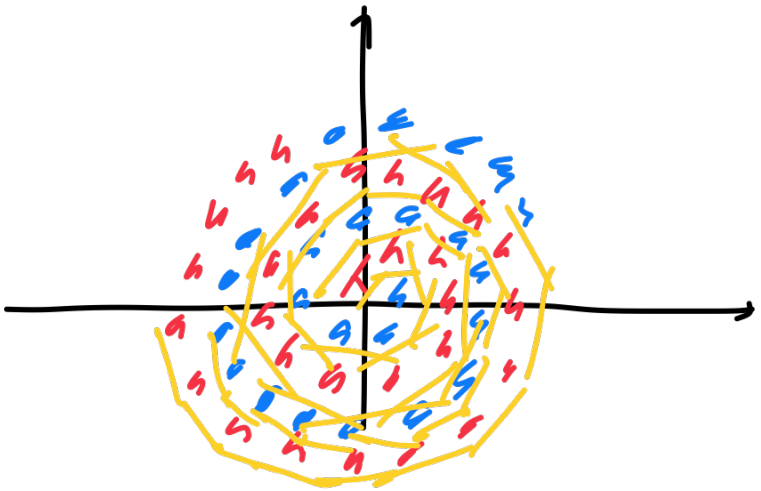
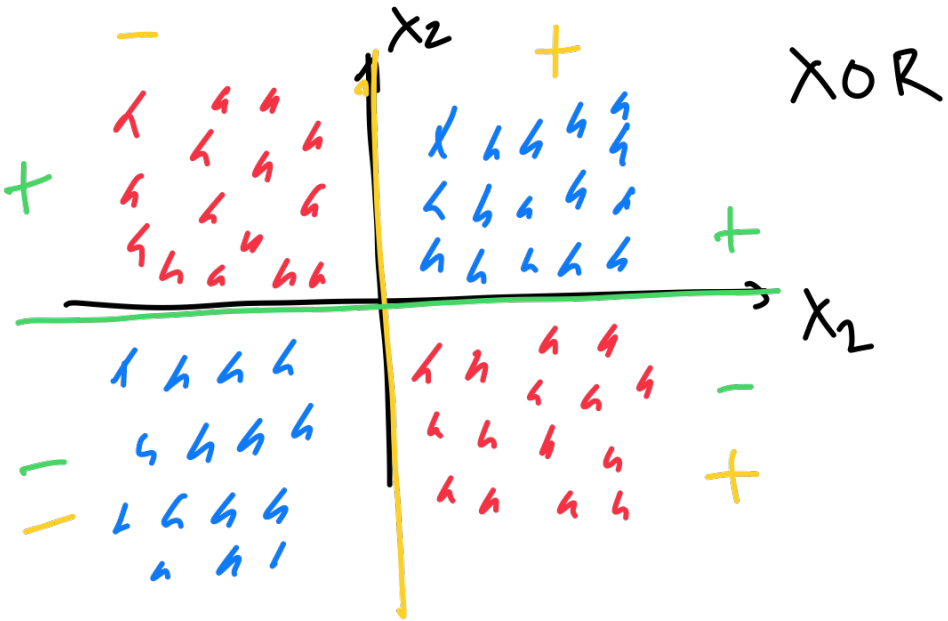

x_1
β_1
β_0
β_2
Σ
σ
$y(x)$
x_D
β_D




x_1
x_2
x_3

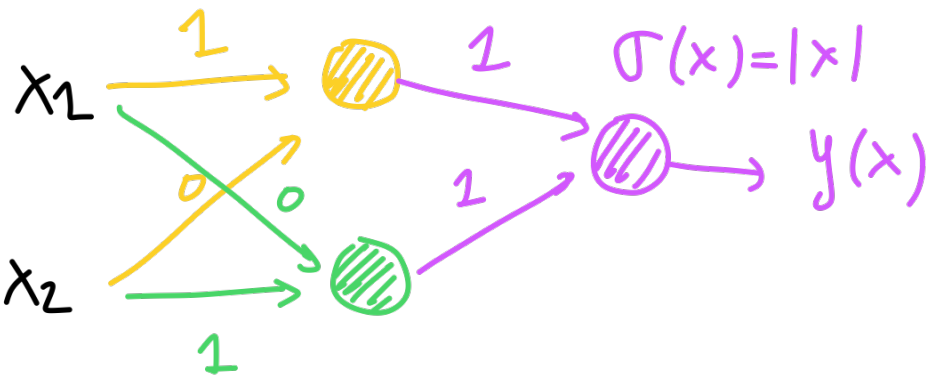




$\sigma($ x_1 $)$

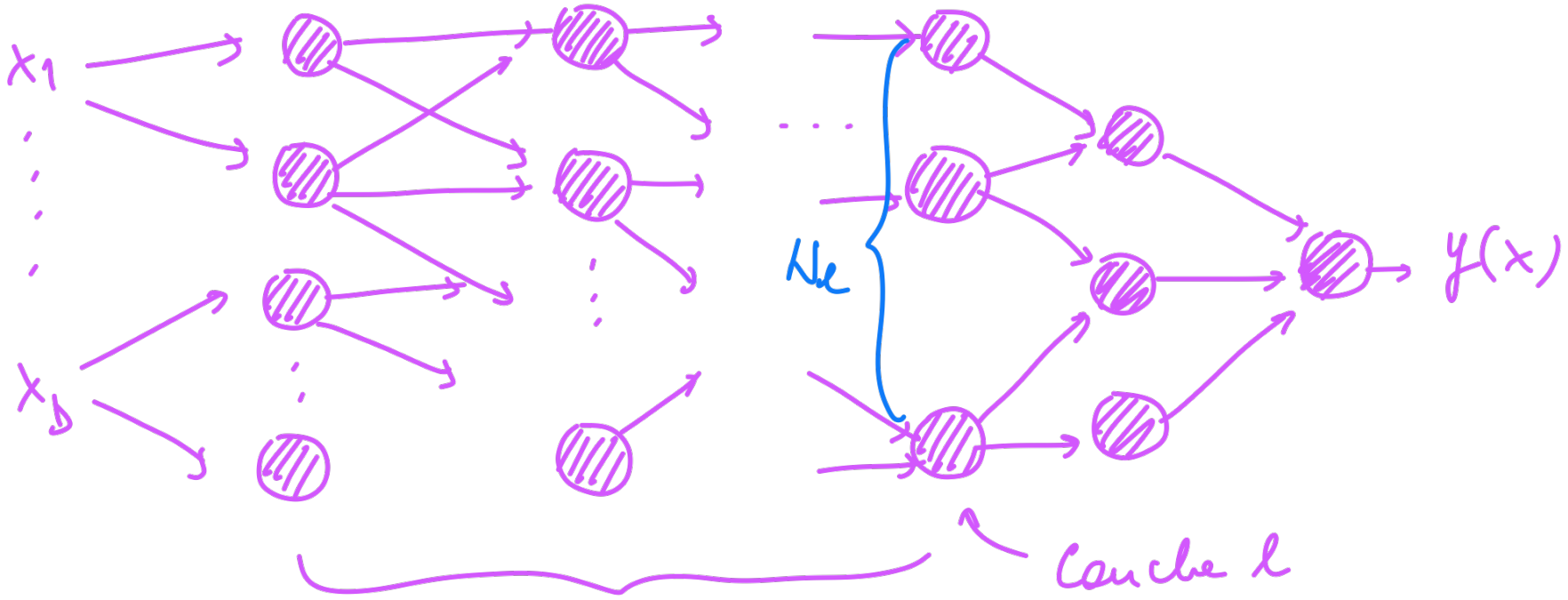
$\sigma($ x_2 $)$

$$\sigma(x)=\begin{cases}1 & x\geq 0\\ -1 & x<0\end{cases}$$



$y($  $) = 2$

$y($  $) = 0$



N_l : nombre de neurones dans la couche l

$W_{ij}^{(l)}$: $j$ème coefficient du $i$ème neurone de la couche l

Sortie du $i$ème neurone de la couche l

$$z_i^{(l)} = \sigma\left(\sum_{j=1}^{N_{l-1}} W_{ij}^{l} z_j^{(l-1)} + W_{i0}^{(l)} \right)$$