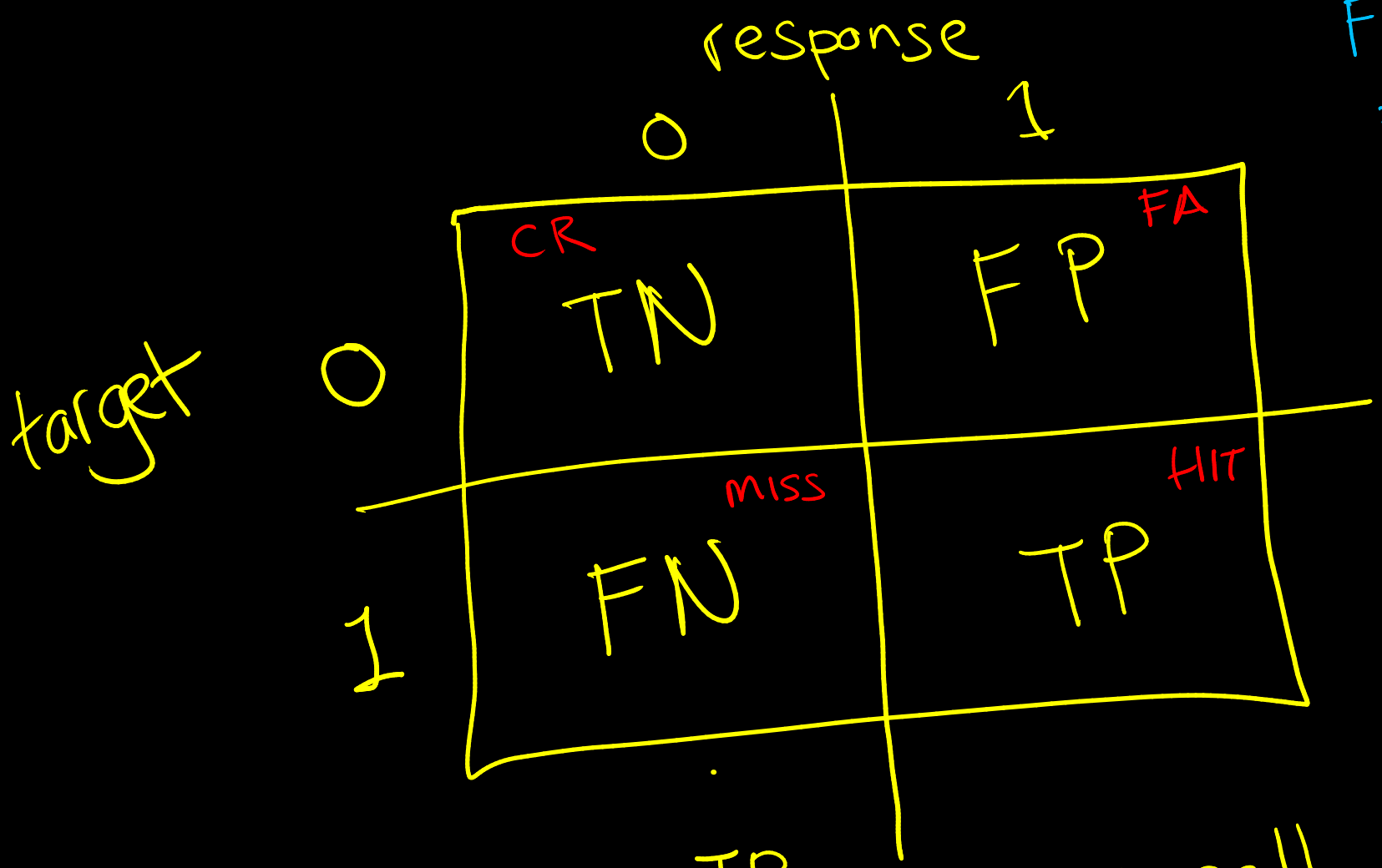



$$\text{FPR} = \frac{FP}{FP + TN}$$

$$\frac{TN}{TN + FN}$$

$$\text{Precision} = \frac{TP}{TP + FP}$$

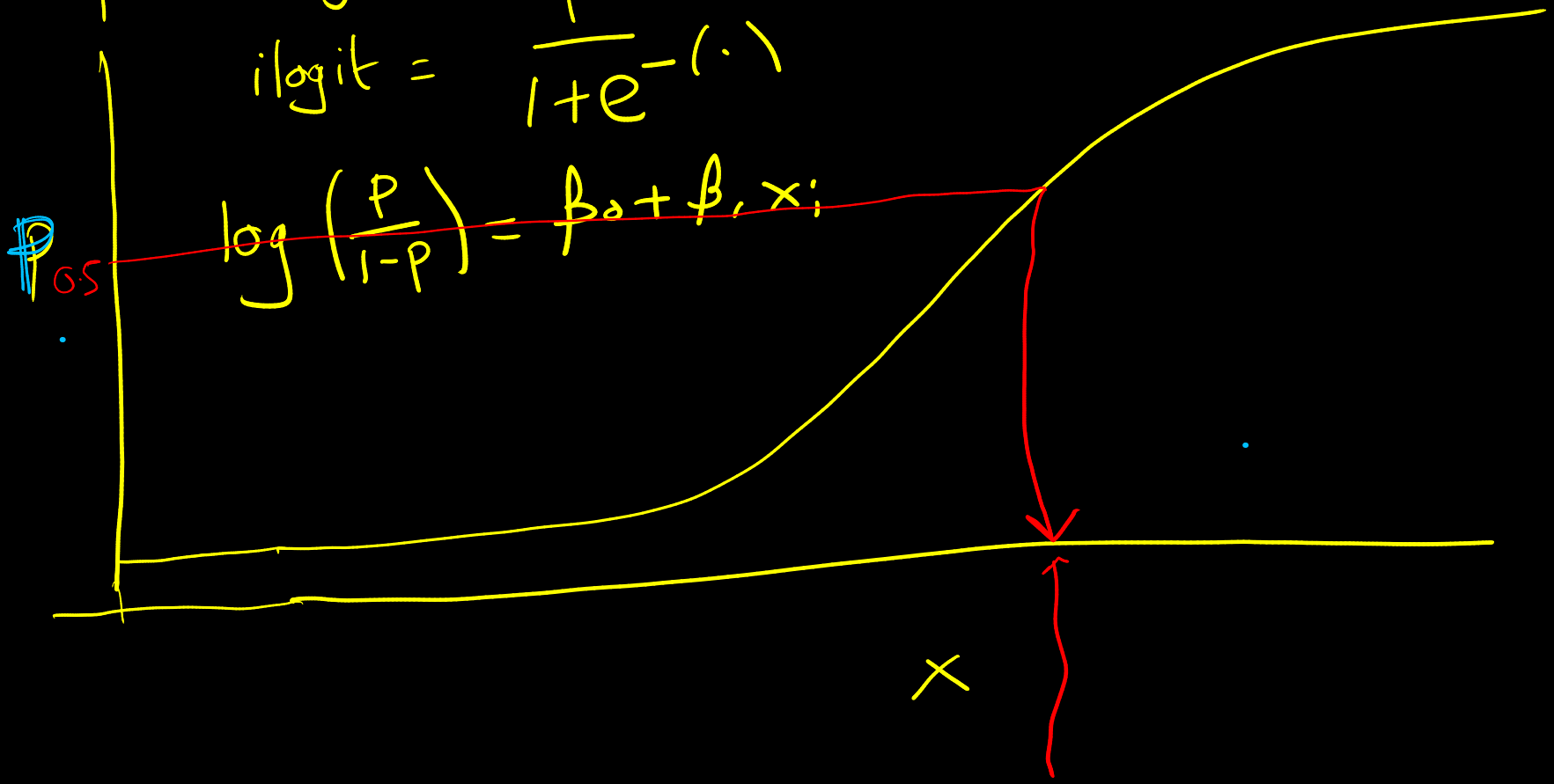
, recall $= \frac{TP}{TP + FN}$

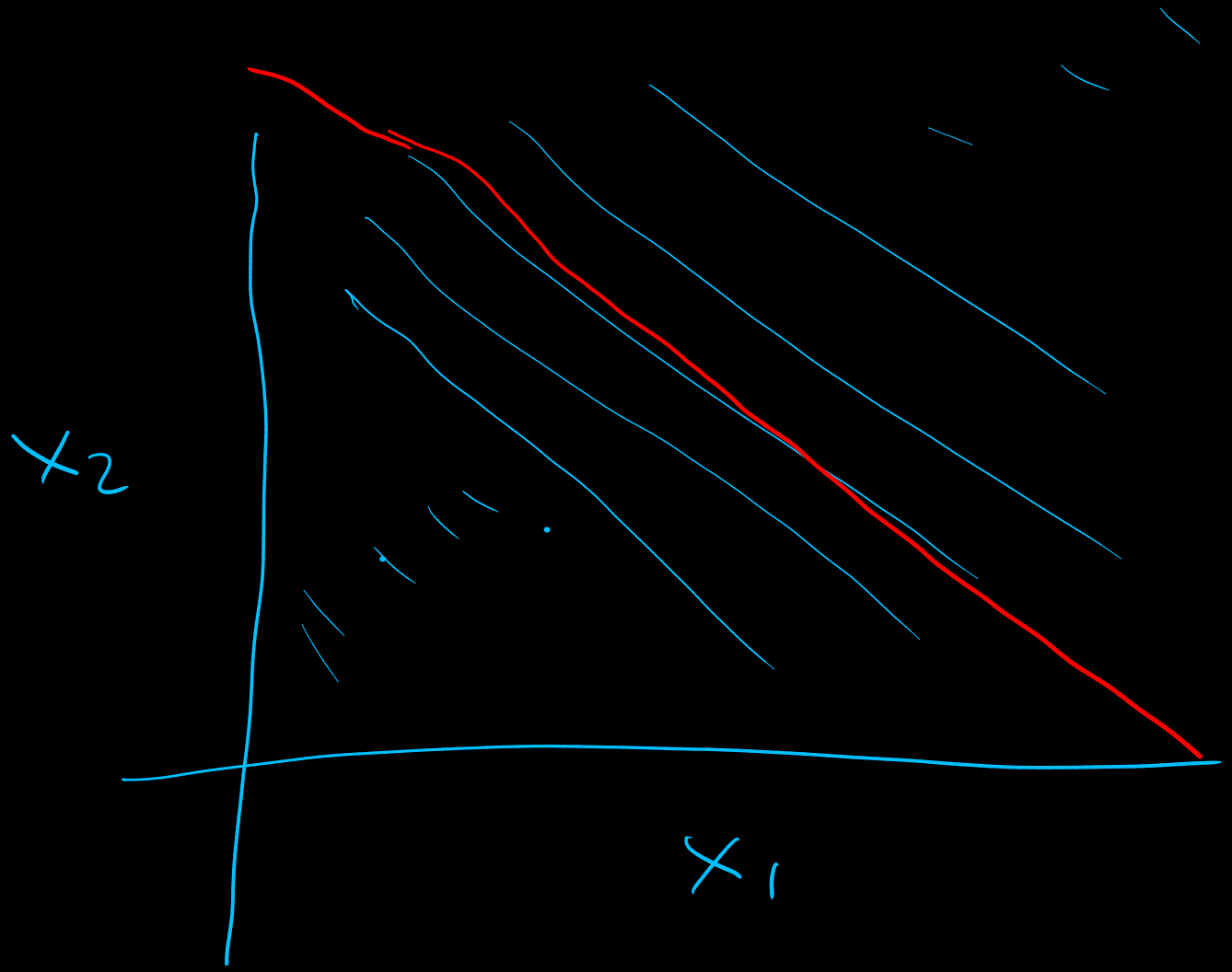
TPR

$$p = \text{ilogit}(\beta_0 + \beta_1 x_i)$$

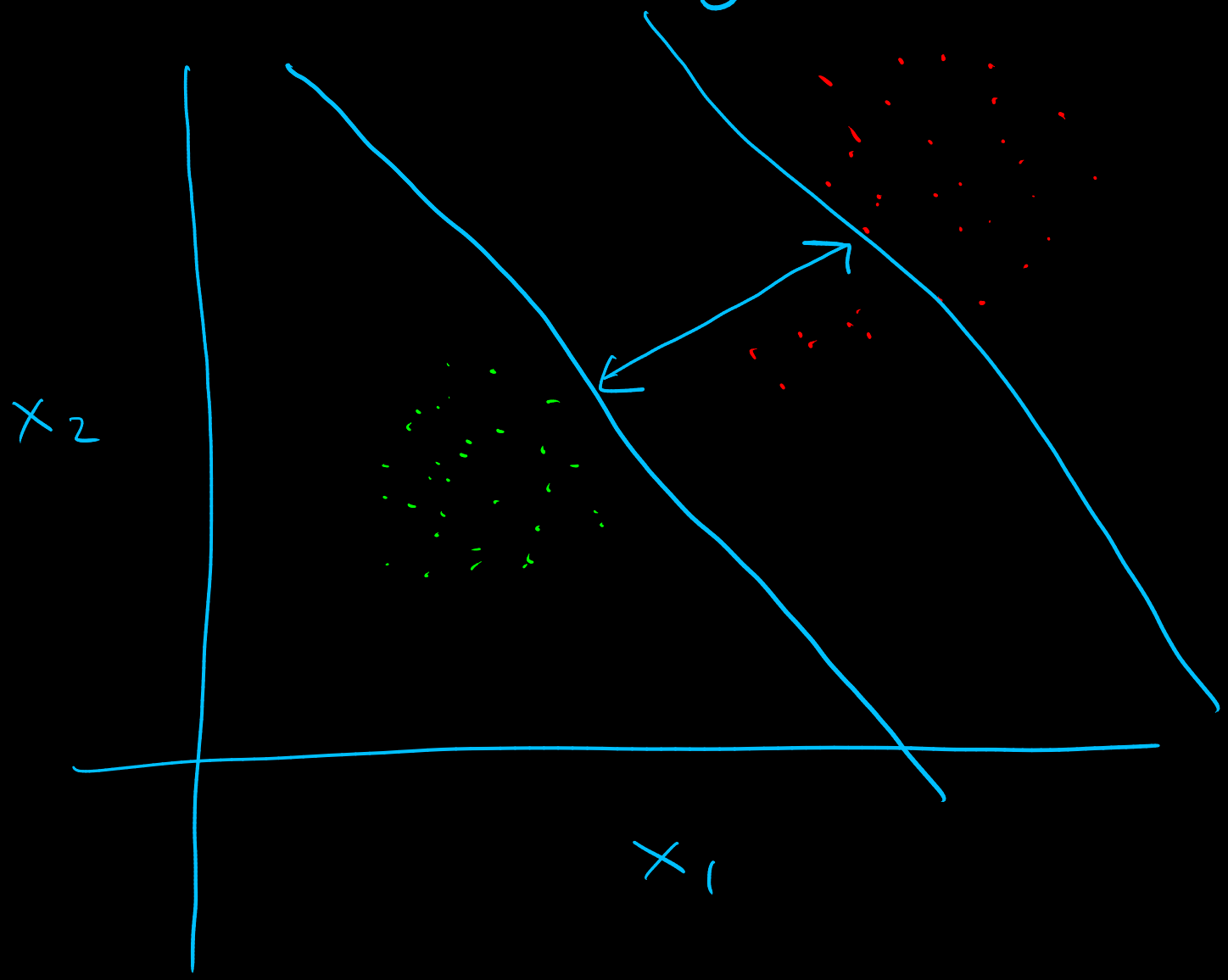
$$\text{ilogit} = \frac{1}{1+e^{-(\cdot)}}$$

$$\log\left(\frac{p}{1-p}\right) = \beta_0 + \beta_1 x_i$$

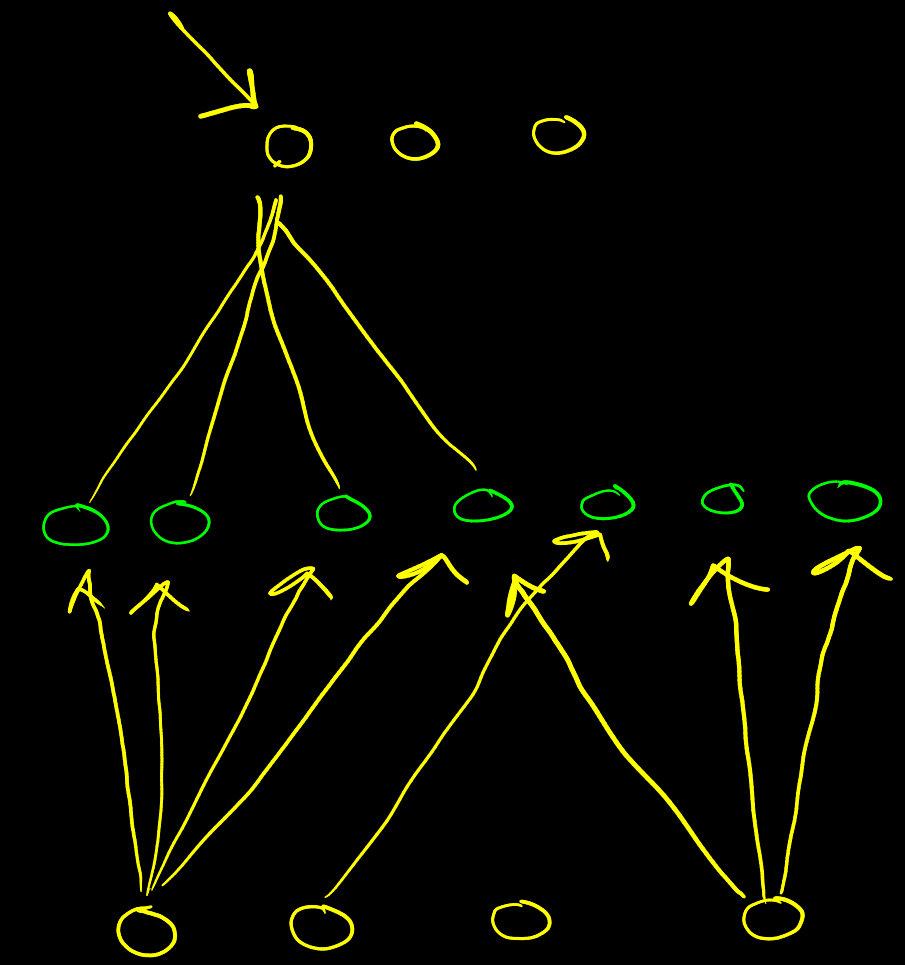


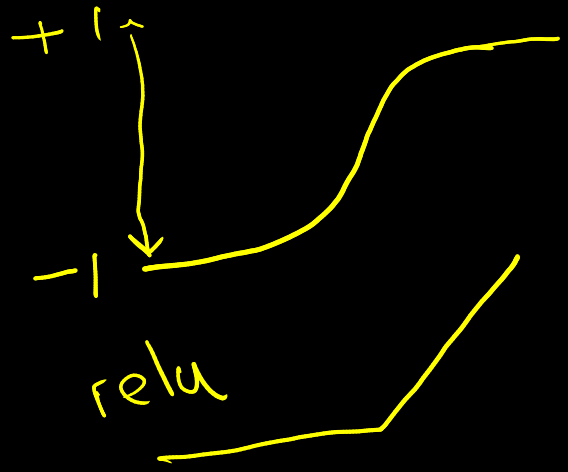

$x_2$
$x_1$

# max margin classifier

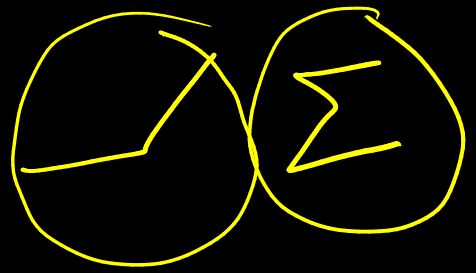


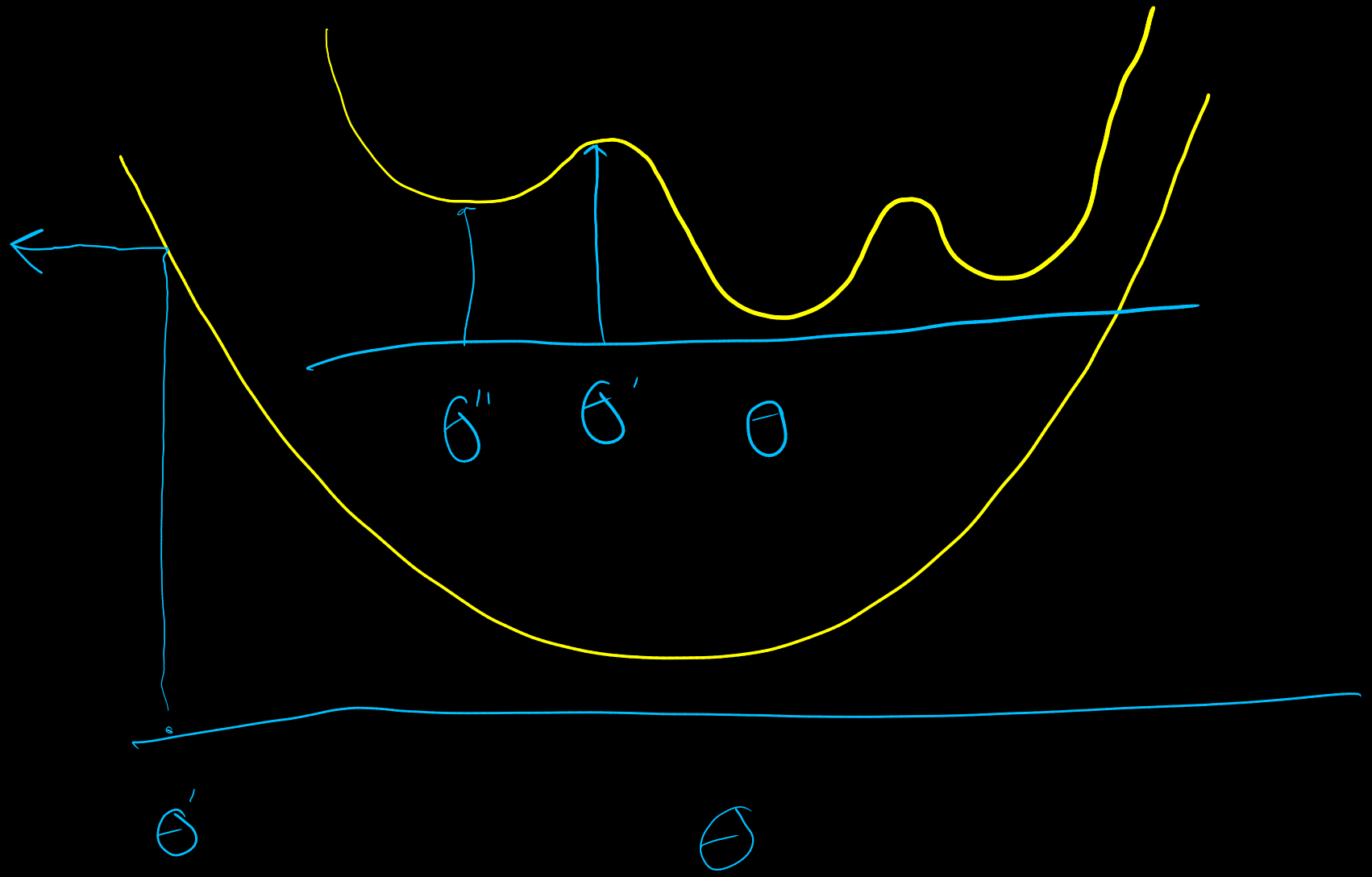
$$\frac{e^{x_k}}{\sum_{k=1}^{3} e^{x_k}}$$

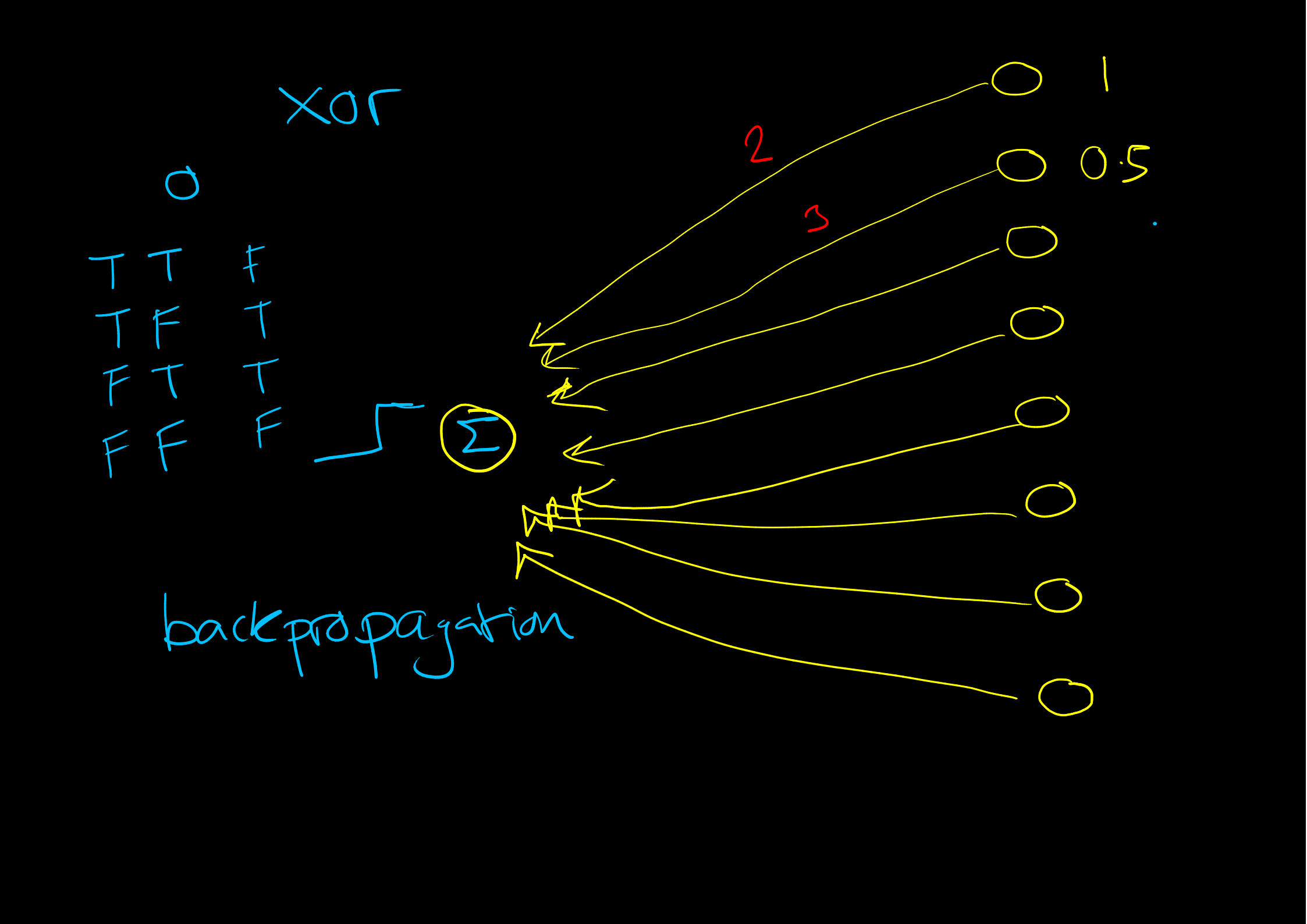





MLP




G''
G'
O
G'
O


xor
0
T T F
T F T
F T T
F F F
Σ
backpropagation
2
3
1
0.5