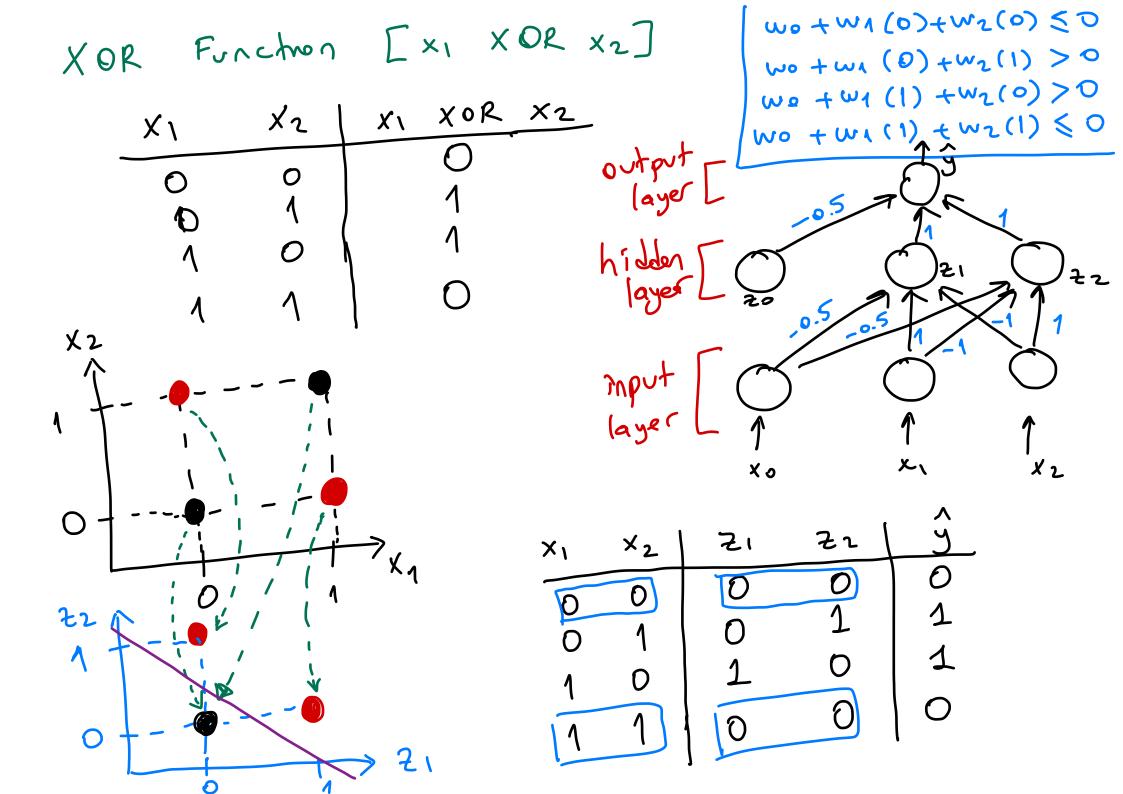
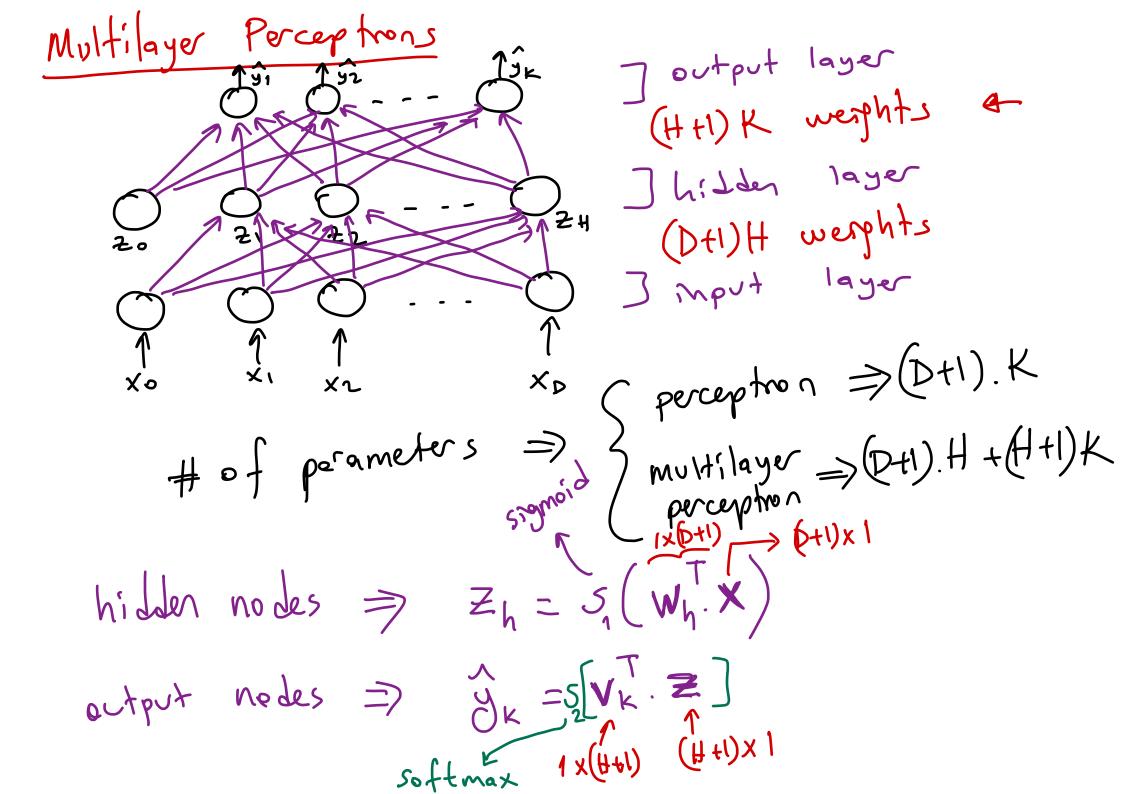
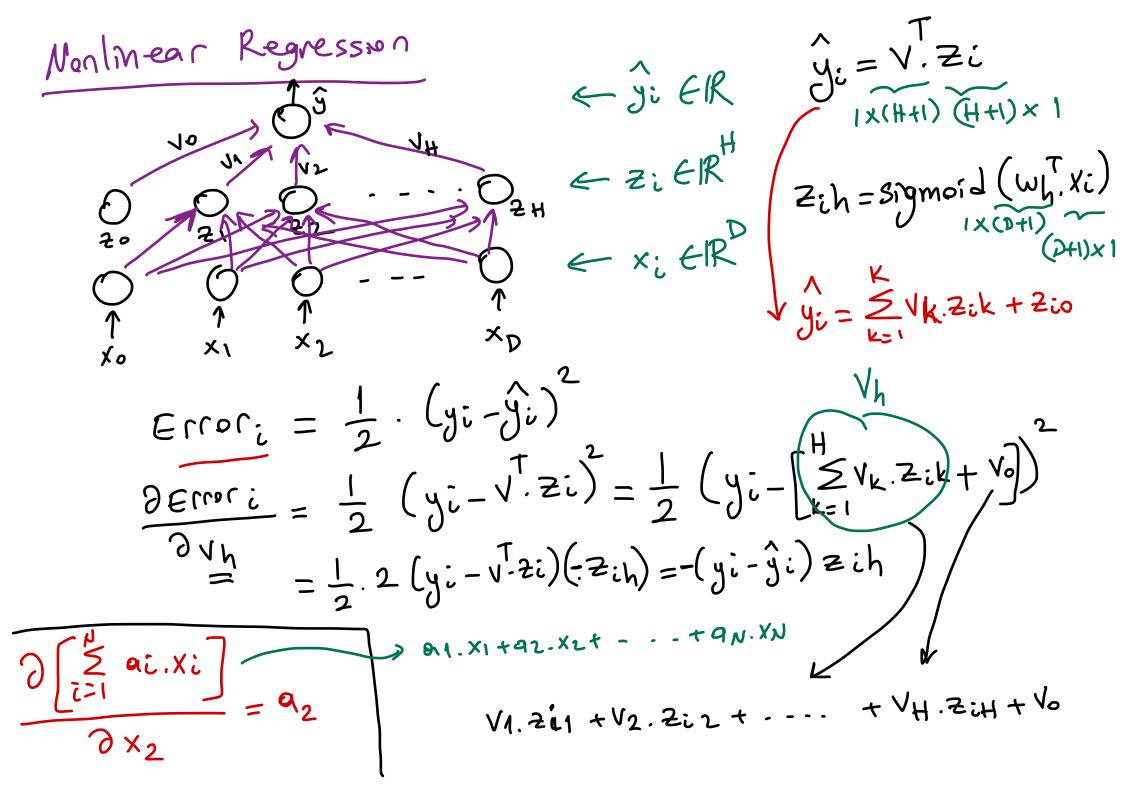
Wo +W1.(0) + W2.(0) ≤ O Boolean Functions wo +w1 (0) + w2(1) ≤0 $x_1 \in \{20,1\}$ $x_2 \in \{0,1\}$ wo + w1 (1) + w2 (0) <0 $w_0 + w_1(1) + w_2(1) > 0$ AND Function [x, AND x2] XI AND X2 ŷ= 5 (w0+ W1 X1+W2X2)





H.wf:
$$\frac{\partial f(z)}{\partial x} = \frac{\partial f(z)}{\partial z} \frac{\partial x}{\partial z}$$

Constant



$$\Delta V_h = 1. (y_i - \hat{y_i}). z_{ih}$$

$$\Delta W_h = 1. (y_i - \hat{y_i}). V_h. z_{ih}. (1-z_{ih}). X_{id}$$

Brary Classification

$$\frac{\hat{y}_{i} = sigmoid (v.z_{i})}{2ih = sigmoid (w_{h}.x_{i})}$$

$$\frac{\partial Error_{i}}{\partial V_{h}} = -\frac{1}{1 - 2i} \log (\hat{y}_{i}) + (1 - \hat{y}_{i}) \log (1 - \hat{y}_{i})$$

$$\frac{\partial Error_{i}}{\partial V_{h}} = \frac{\partial Error_{i}}{\partial \hat{y}_{i}} \frac{\partial \hat{y}_{i}}{\partial V_{h}}$$

$$= -\frac{1}{1 - 2i} \frac{1}{1 - 2i} \frac{1}{1 - 2i}$$

$$= -\frac{1}{1 - 2i}$$

Exercise#7

O Whd

O Whd