

(ot  $x = (x_1, x_2), y = V_3$ 

you are given a training samples  $\{x,y'\}$   $\{x',y'\}$   $\{x',y'\}$   $\{x',y'\}$   $\{x'=(0.5,0.7),y'=0.3\}$ ,  $\{x'=(-0.2,0.1),y''=0.1\}$ 

you are required to write the weight update equation and the weights  $\{w_1, w_2, \cdots, w_c\}$  after 4 iteration (i.e., 2 sweeps through the training data set). let  $w_{(10)} = -0.02$ ,  $w_{(20)} = -0.05$ ,  $w_{(30)} = 0.01$ ,  $w_{(40)} = 0.01$ ,  $w_{(40)} = 0.01$ 

hyper paramters

learning rate y=0.1 a+b in tanh=a=1batch size N=1