Newfal Networks: 2000 17 / 21/51: 2000 1000 17 / 21/51 1000 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 17 / 21/51 2000 17 / 21/5

Question(1) choose the correct answer

(1) P. Rosenblatt

(8) C. Newson

(3) B. Chenical process

(4) C. Transmission

150 - A . summing

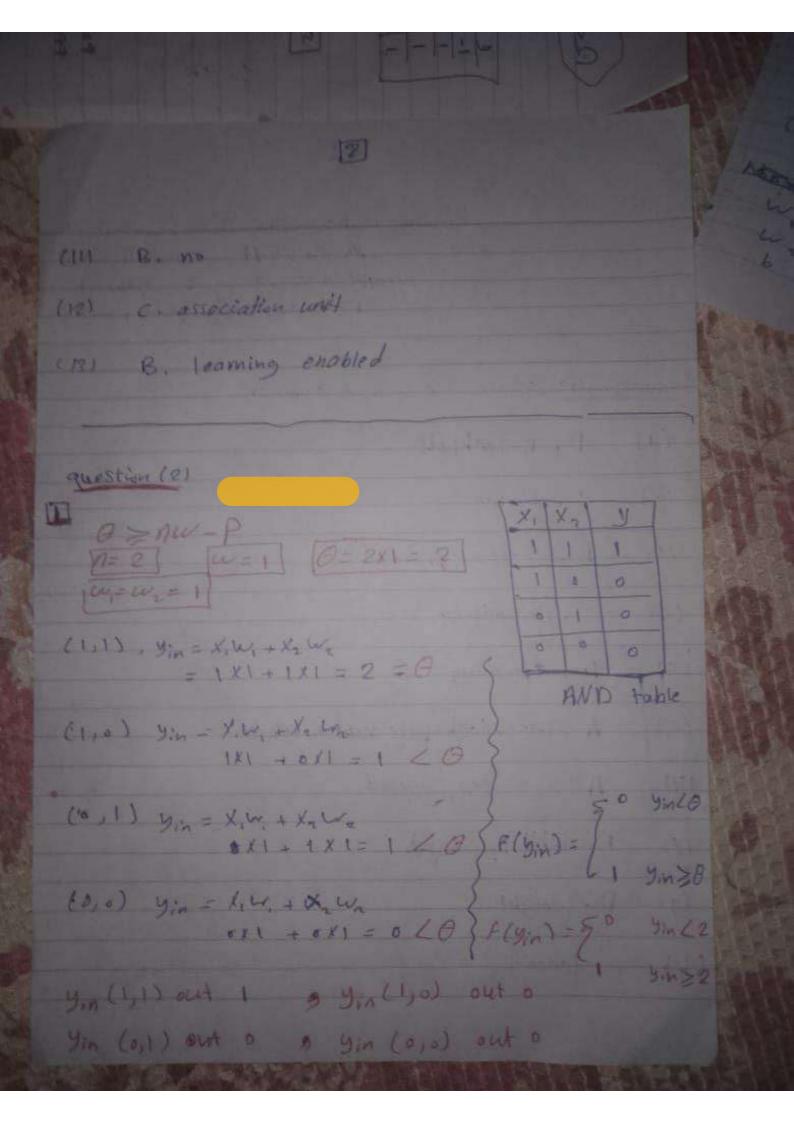
16) A . Mc Culloch - pitts neuron Model

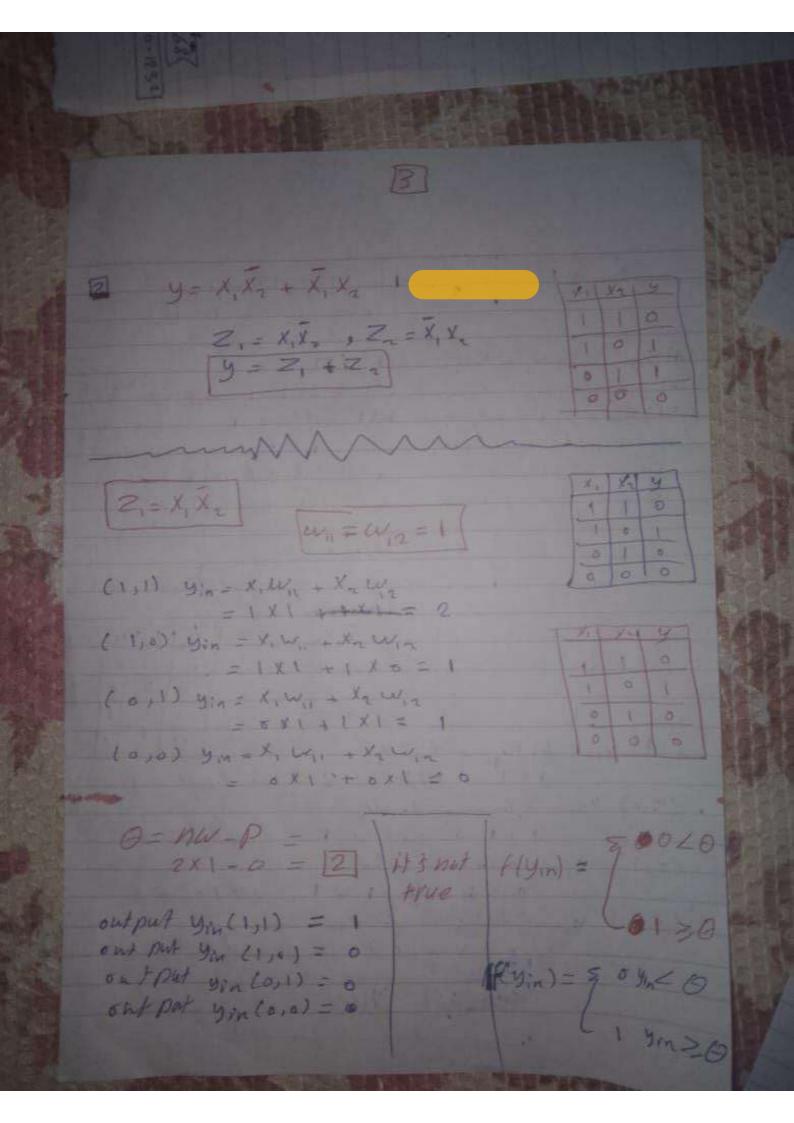
A excitatory input

18) B. inhibitory input

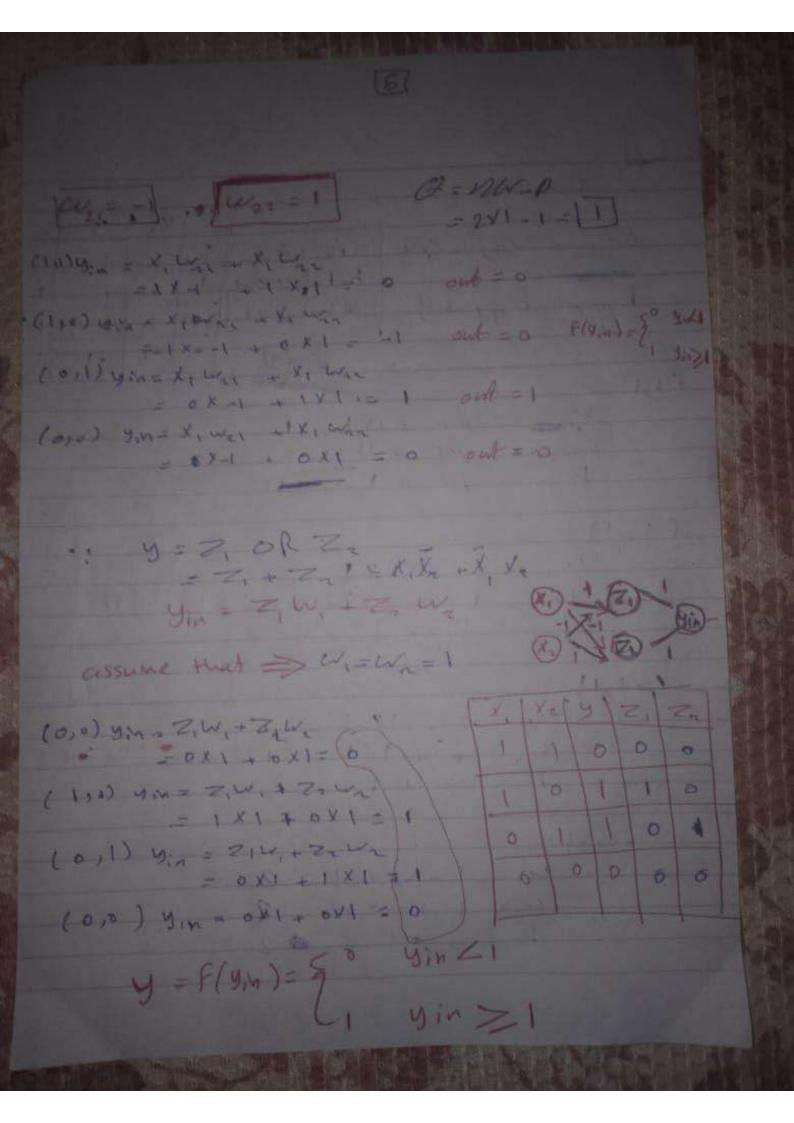
(g) D. weight

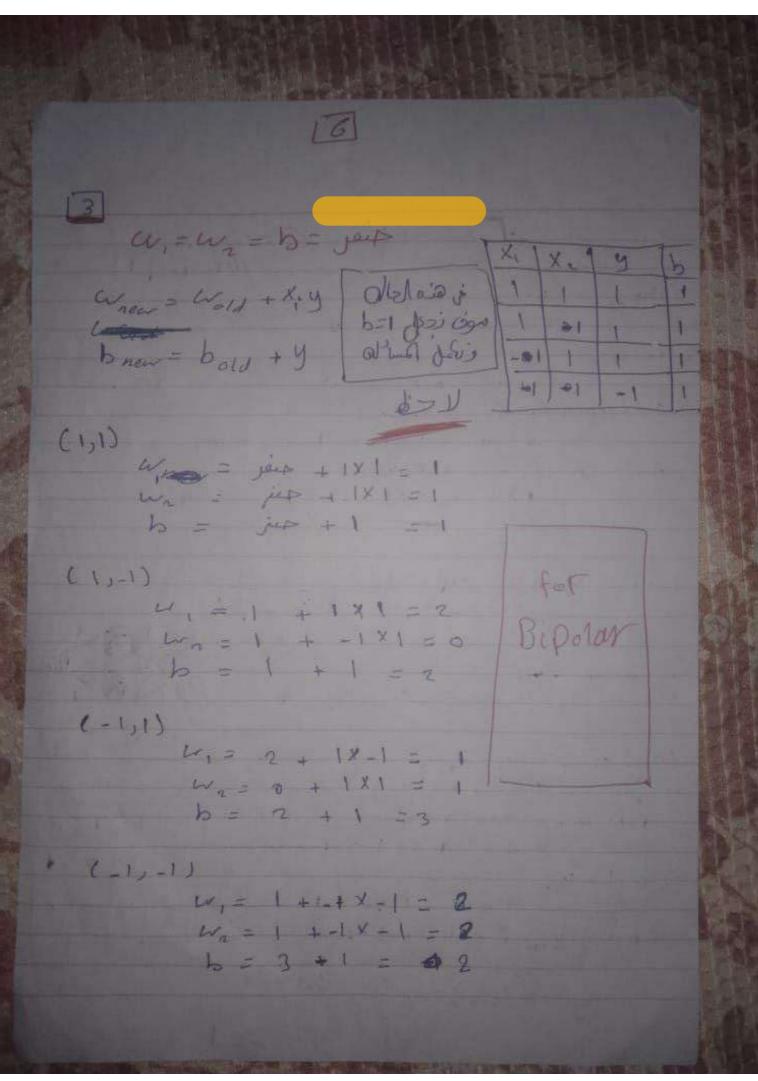
(10) C. learning

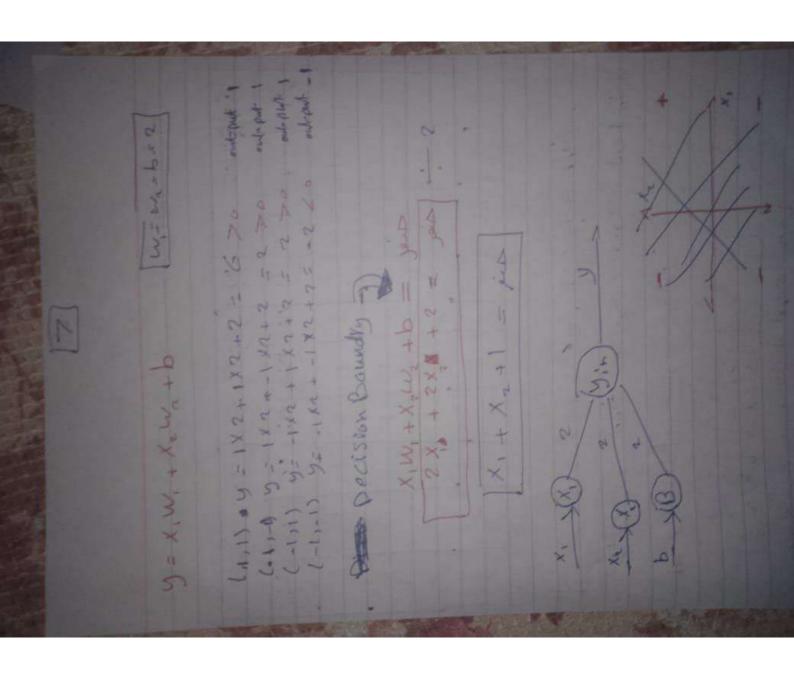




[win = -1] Q=MW-P= = 2x1-1=[] (121) Yin = X, W, + X2 W = 1X1+1X-1=0 (12) yin = X, W, + X, W, = 1 x1 + 0x-1=1 A(y), = 0 y, x1 (10) yin = X, W, + X, W, z = 1 x1 + 0x-1=1 A(y), = 0 y, x1 (0,1) yin = X, W, + X, W, z = 0 x1 + 1x-1=-1 (0,1) yin = X, W1 + X2 W12 = 0 ×1 + 1×-1 = -1 (0,0) yin=X, w, + X2 w, 2 = 0x1 + 0x -1 = 0 output 9in(1,1) = 0 , out put yout 1,0) = 1 - ait put yin (0,1) = 0 , out put yin (0,0) = 0 1+5 true [w21=w2= 1] Z25 X,X2 O=nW-P=2X1-0 1 1 1 0 = 2 1 0 0 (1)1) you = X, W2, + 12 W22 output = 1 111 + 111 = 2 (1,0) yin = X, W21 + X2 W22 out put = 0 1 x 1 + 0 x 1 = 1 (0,1) yin = X, whit + Xa War out put = 0 0 X 1 + 1 X 1 = 1 (0,0) yin = X, Was + X2 War 0 x 1 + 0 x 1 = 0 out put = 0 It's not true





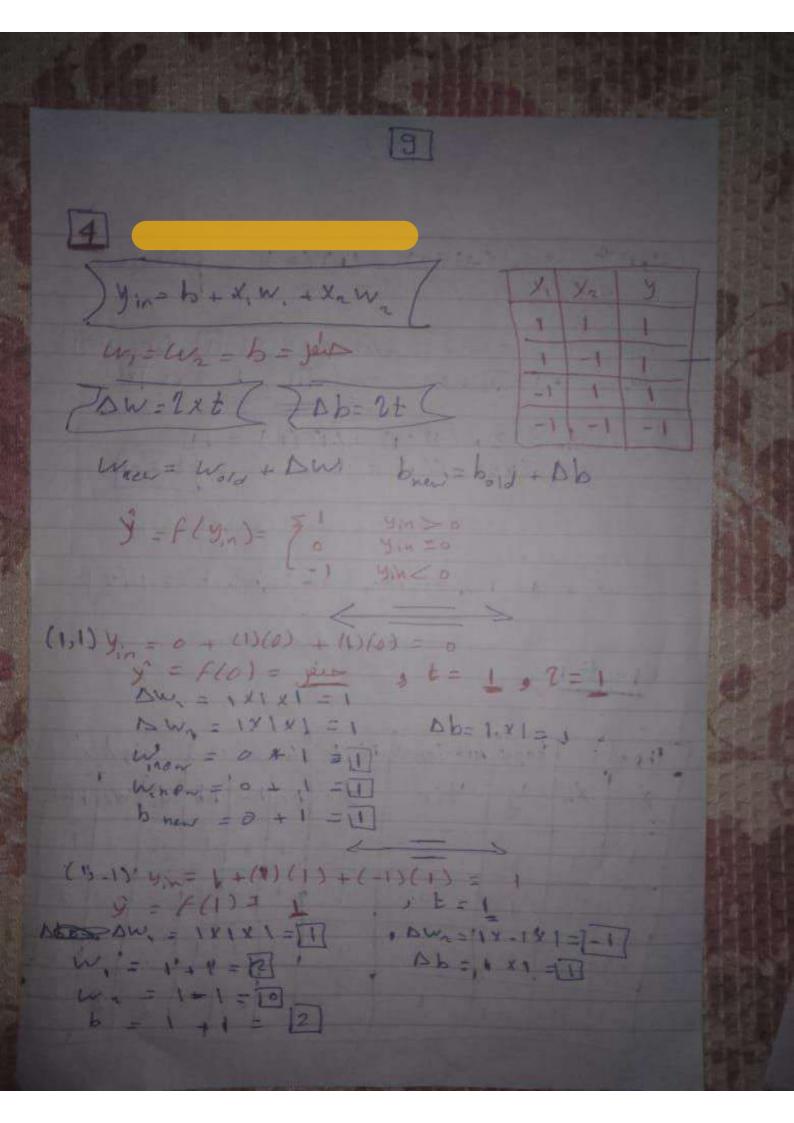


(8)

## For binary :

F	ins	2 tus		taget	ever	ightw	honges	ner	elije	描
1	Xi	X	bios	y	DW,	Mu	Ab	W.	Wa	bias
1	1	1	1	1	1	1	1	1	1	1
1	1	0	-	+	1	0	1	2	0.	2
	0		1	-	0	4	1	2	2	3
	6	10	1	0	10		0	12	2	3

Hebb Gerbe OR Just is Hebb per is



W, = 1 x - 1 x 1 = -1 + DW2 = 1 x 1 x 1 = 1 , Db = 1 x - 2 1 = 1 , b = 2 + 1 = 1 ]

DW, = 1x-1x-1= [] , DW,= 1x-1x = [-1]

Db=-1x1= F1

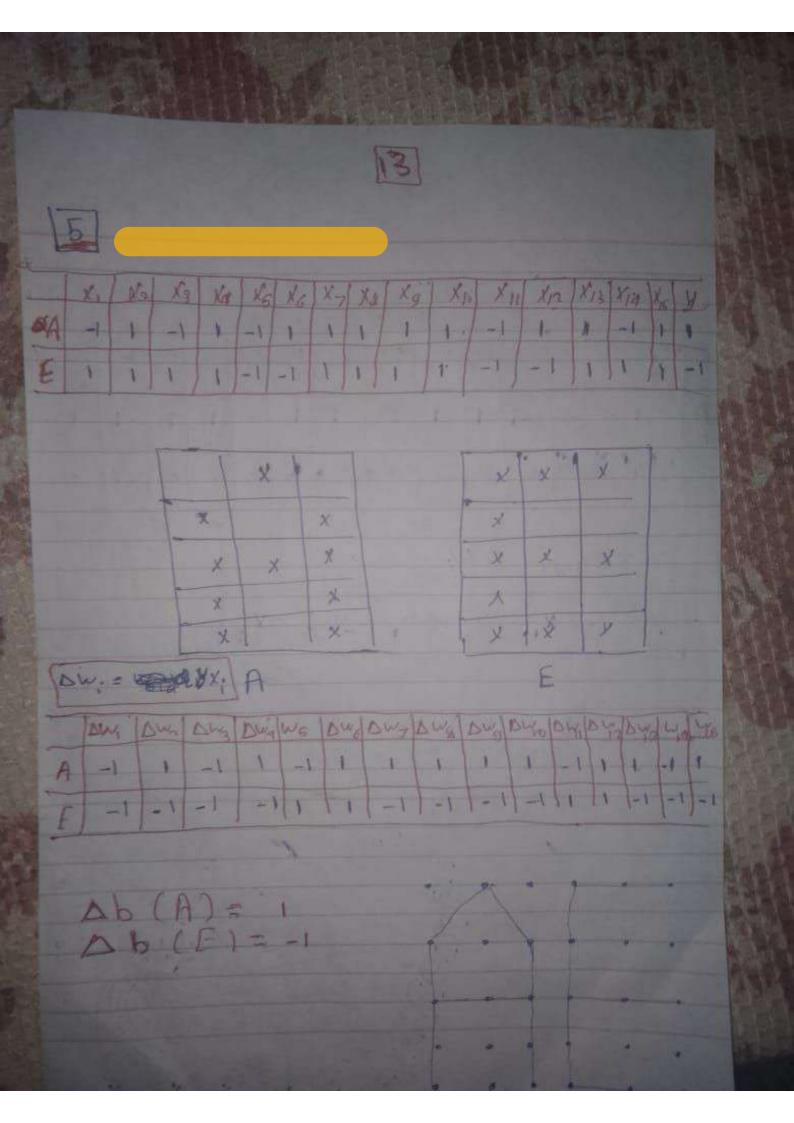
W, = 1+1 = 2 , W, = 1+1=0, b=3-1=2

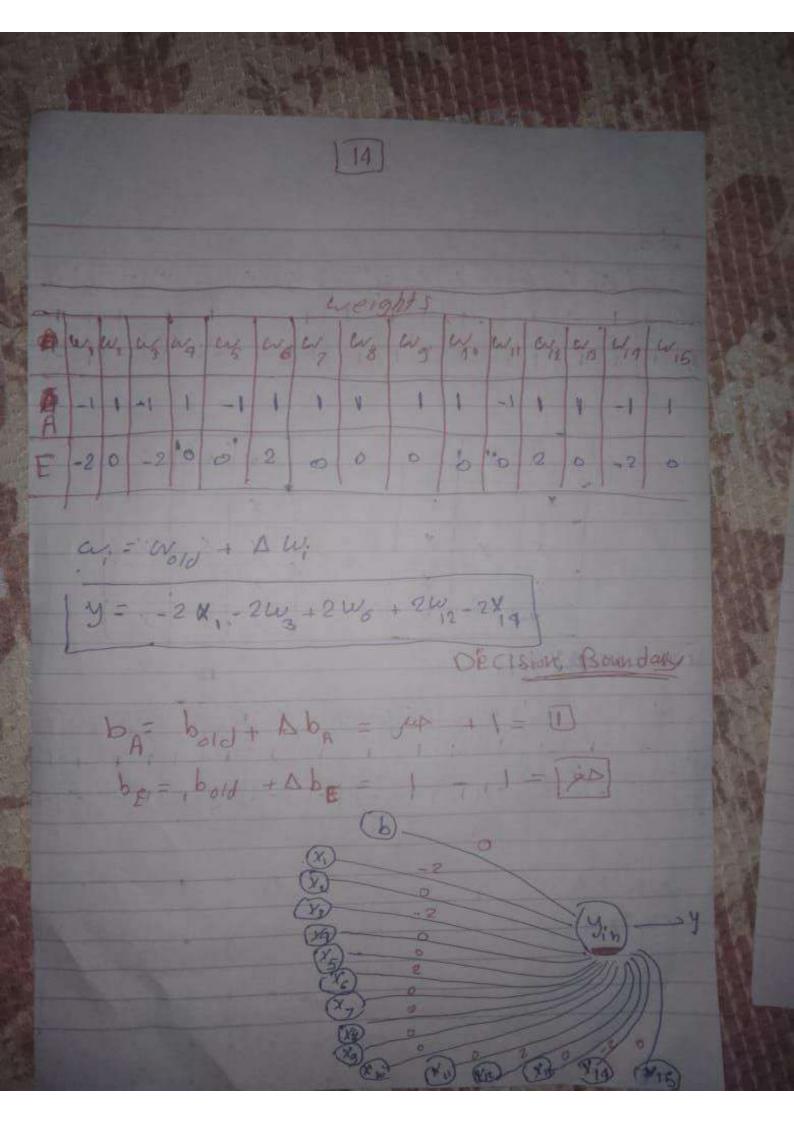
Epoch 1

	4	-	-	24				-			
1	thout	5	targut	net input	DUPANT	Lys	light.	1 hory	+	igh	17
1	X	Xn	y	Yin	14	DW	Shi	AL	w. 1	Wa	bias
	1	1	1	6	0	1	1	1	1	1	1
	1		1	1	1	11	1-	1	2	0	2.
	1-1	1	1,1	6	0	1-1	1	1	1.	1	13
	1-1	-1	-	1, 1		F	( )	-	2	3	2
								-		-	7-7

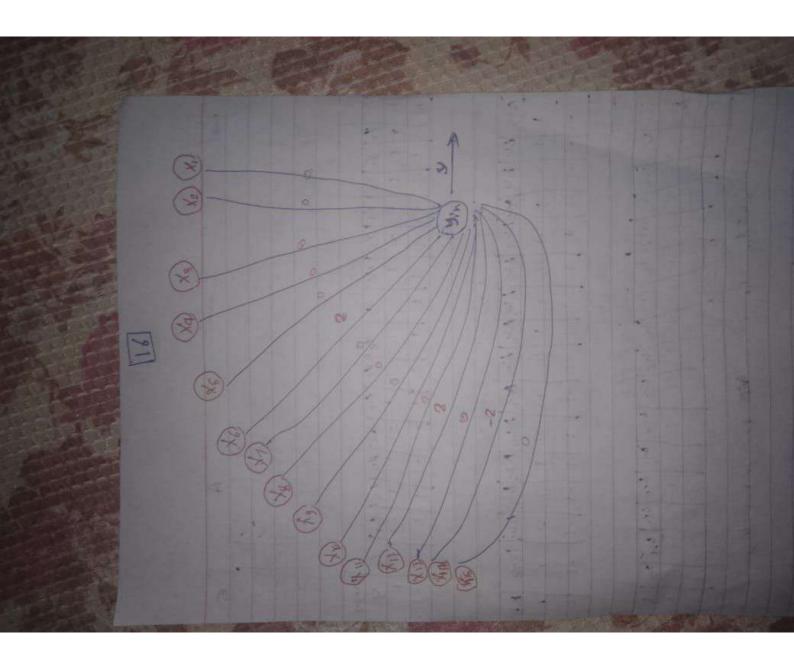


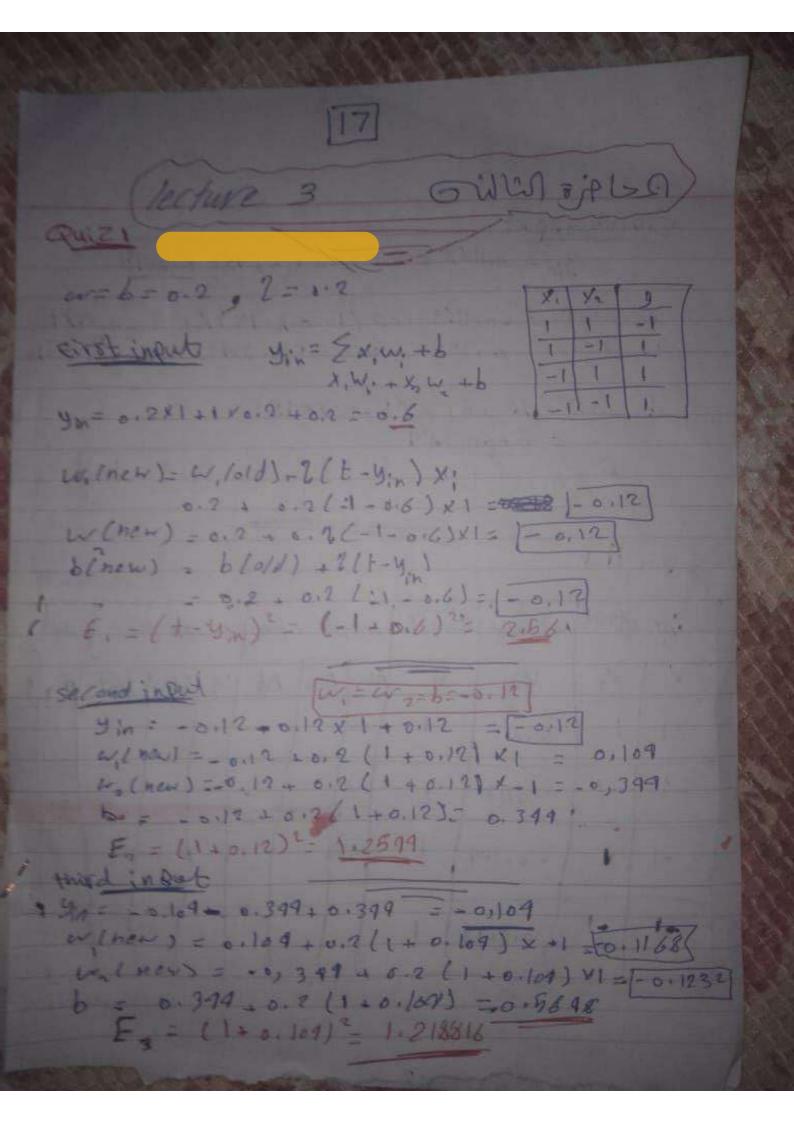
1 1 1 2 1 1 1 5 5 5 6  1 1 1 1 4 1 -1 1 6 6 6  Front 9  1 1 1 1 8 1 1 1 1 7 7 7  1 1 1 7 1 1 1 1 1 1 7 7 9  1 1 1 1 5 6 6 8  8 8 8 1 + 8 8 1 + 8 = jest (W.X. + U.S. = b. = jest)  9 8 2 8 2 1 8 2 1 1 1 1 1 1 1 1 1 1 1 1 1	E	H3.9	3			[12						
X1 X2 Y Y20 9 DM,				net ad	OW AD		4.1/20	130			100	
FPOTH 9  THE POTH					ĝ	DW.	VM.	Ab	W,	Wa	bie	
Front 49  Front	1	1	1	12		1	1	1	5	5	6	
Froch 9  Froch 9  11 1 -1 6 6 6  11 1 -1 1 8 6 8  11 -1 -1 -1 8 8 8  11 -1 -1 -1 -5 0 1 1 -1 8 8 8  12 8 X + 8 X + 8 = jent (W, X + U, X e 1 b - jus)	-	-9	1	6	1	1	-1	1	6	4	6	
(Froc Ha)  (Froc Ha)  (A) (A) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	-1	1	1	4	1	-1	3	0	5	B	7	100 May 100
1	1-4	4	12)	-3	1 6	111	1	-1	61	6	6	1000
1	CE	POE	H 9							1	Liver	
8. 8 × 1 + 8 × 1 + 8 = jent (W, X, + W, X = 1 b = just)	17	Xa	19	Pro	9 1			_		-		
x = 8 x + 8 x + 8 = jeux (W, X, + U, X = 1 b = jus)	1	1	1	18	1	1	. 1	1	7 1	7	7	-
8 - 8 × 1 + 8 × 1 + 8 = jest (W, X, + W, X = 1 b = jest)	1	1 -	1	7	1111	11	-1	1	8	6	*	1
8. 8x, +8x, +8 = jew (W, X, + U, X = 16 - jus)		1 9	1	6.	1	-1	1	1	7	7-	9	1
8. 8x, +8x, +8 = jew (W, X, + U, X = 16 - jus)		1-	1-1	-5	0	1	1	-1	8 1	8	8	
VFA, +72 T	8:	SX	+ X	3 X, +	8 = je = je (4 je	.D	DRE	W, X,	+ 44	edb.	[ Lay	To a second
TWING TO THE TOTAL THE PARTY OF	Tw=	surn =	b=	1	1 = 8	1	199-	<u>y</u>				











Courth input

yin = 0.1168 + 0.1732 + 0.5698 = 0.8098

W. (now) = -0.1163 +0.2 (1-0.8093) X-1 = -0.15589] W. (now) = -0.1832 + 0.2 (1-0.8093) X-1= -0.1622]

b =0.5648 +0.2(1-0.8098).

8 Eq = (1 + 0.8048) 2 (0.038/0309)

Epoch 1

X	Va	35	y	1 Aw.	1 8000	86	I w.	1 w=	81	ener\
-		1			-0.32					13
1	-1	-a . 12	1	6.229	-0.279	0.474	0109	-0.349	0.3.49	1.2614
-1	1	-0: [5]	1	-8.273	0.2208	-0. 11 × 8	- o. 110%	-0:1232	0.5642	1.21886
-	-1	o. 3493	,	0.034	-0.03.24	0.03404	-011558	-0.1629	4 0.603	8 0.0381030

F = 507-4.5.2.56+1	25 99 -1. 218816+0.03516329
1 = 5.077	

Epoch 2

K,	Xy	4	yin	Aw,	Dw.	49	w,	un	bias
1	1	-1	0.2868	-10:2676	-0.25 174	-0.25127	-0.4/2	-0.404	0.346
	-1	1	1,35312	0.17938	€-,1203E	e partie	-0.283/	-0.5483	0.476
-1	1	1	0.7686	0.1878	0.1578	o.1573	0.4414	-0.3 41	0.6377
-1	7.	TY	1,9663	0.0433	0.0433	-2:043	3 -0.748	1 00,243	0.51-6

Ex= 2(+-4in) = 0.51+0.1185+0.6227+
0.7171 = 10.766

erral 10181

0.9135

0.1227

D. 2174

quizo Trivilla 7
THE COLUMN
1 x 1 x 5 P 1 A 1
[ 20, 20, 20] [ban ( ) ban ( ) 1   1   1   1   1   1   1   1   1   1
(1,1) w/2000) = 0 + 1 = 1
(10) b (non) = 0 1 1 = 1
W=1-1-0 h=1-1=0
(0,1) *** (1+0-1) **** (0,0) - (0,0)
W = 0 + 9 = 0 b = 0 = 1 = -1 ED = 10
"Decision Boundary 10 = just
to 101/11/1
(1) 1 ( x = 0 9 b = 0 X 1 /2 b ] 9 [
1, =0+1=1 3b=0+1=1 [1-1]
1 -1 1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
2-11/1/-1
w= 1+1=2 -b=1-1=jet -00-1
(-4,1)
wn = 2-1= 1
Pecision Boundary (X1+X2-1-14)