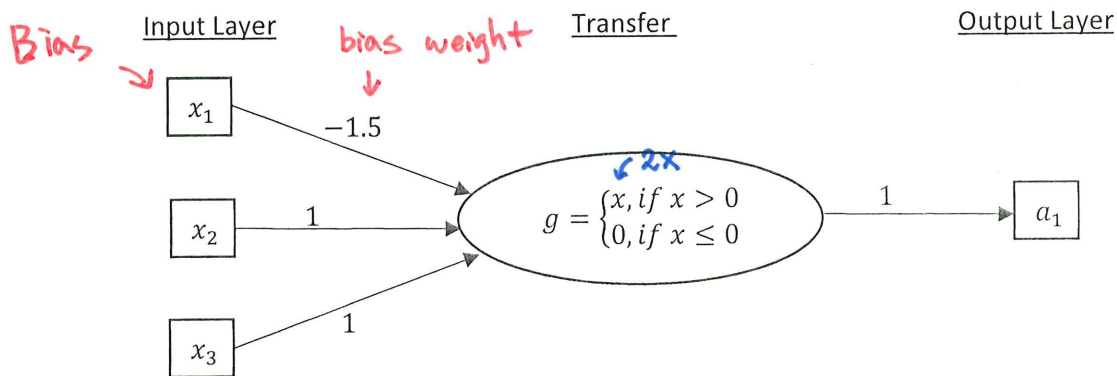


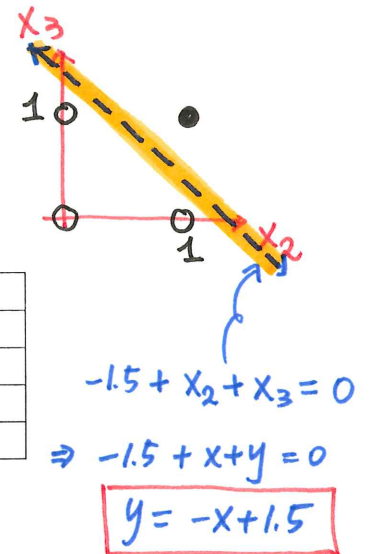
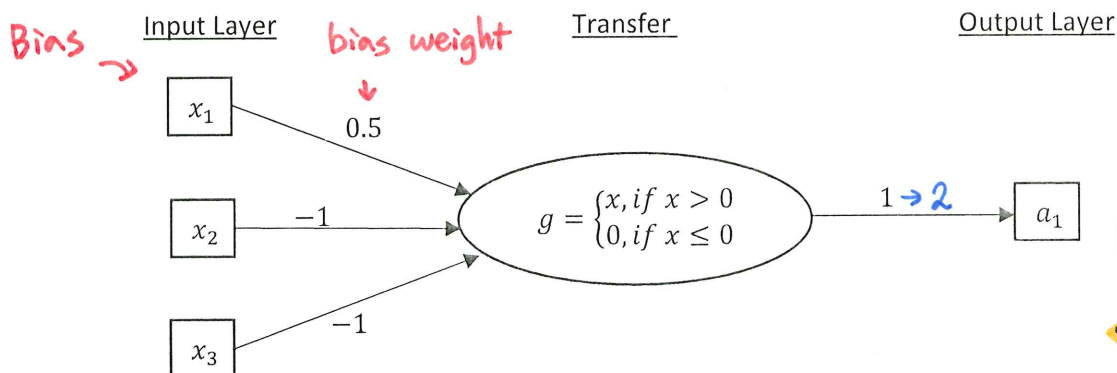
Evaluate the following perceptron networks with given inputs(x_1, x_2, x_3, \dots), weights($w_{i,j}$: weight from i to j), and activation functions(ramp or sigmoid).

Example 1)Sample Input Data

AND

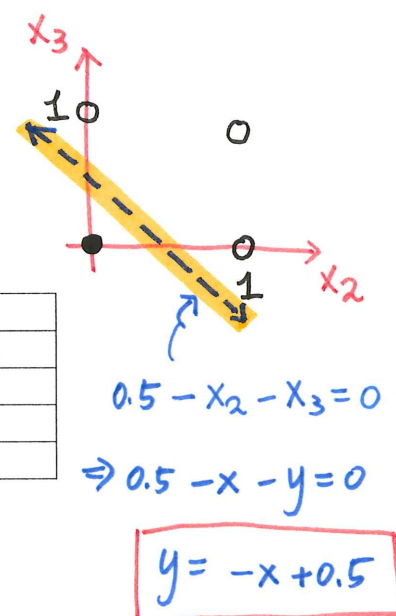
x_1	x_2	x_3	Output
1	-1.5	0	0
1	-1.5	0	0
1	-1.5	1	0
1	-1.5	1	0.5

1

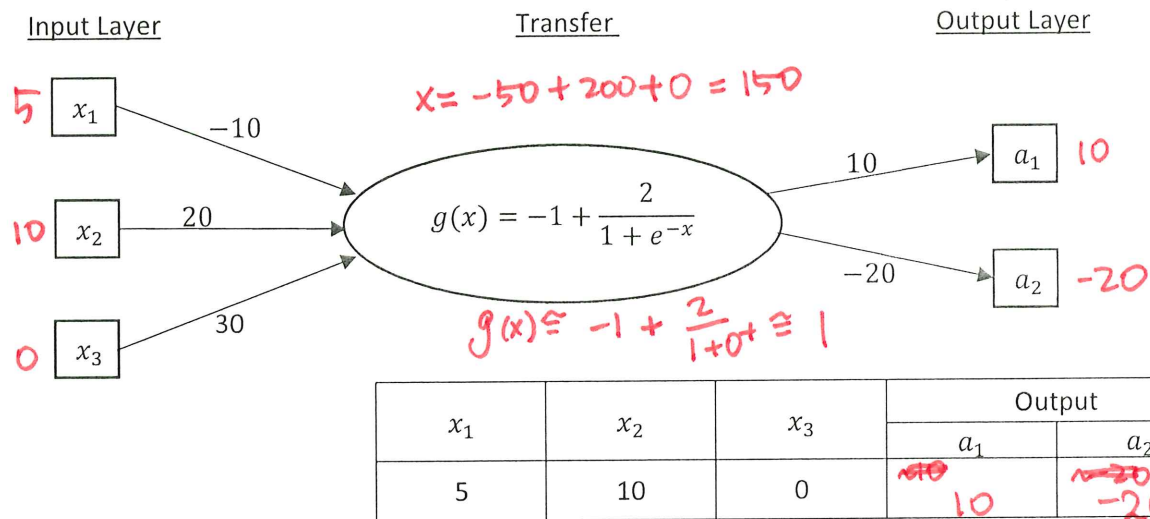
**Example 2)**Sample Input Data

NOR

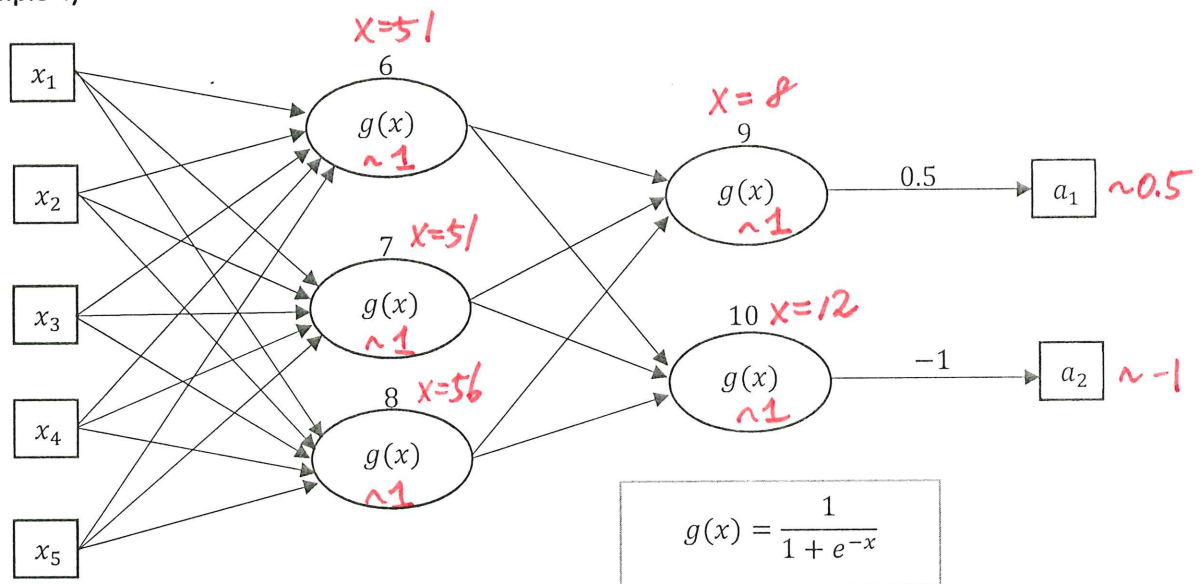
x_1	x_2	x_3	Output
1	+0.5	0	0.5 → 1
1	+0.5	0	0
1	+0.5	1	0
1	+0.5	1	0



Example 3)



Example 4)



$w_{1,6}$	$w_{2,6}$	$w_{3,6}$	$w_{4,6}$	$w_{5,6}$	$w_{1,7}$	$w_{2,7}$	$w_{3,7}$	$w_{4,7}$	$w_{5,7}$	$w_{1,8}$	$w_{2,8}$	$w_{3,8}$	$w_{4,8}$	$w_{5,8}$
5	8	2	0	1	2	2	2	3	7	5	4	4	3	2
$w_{6,9}$	$w_{7,9}$	$w_{8,9}$	$w_{6,10}$	$w_{7,10}$	$w_{8,10}$	Weights								
0	1	7	5	4	3									

x_1	x_2	x_3	x_4	x_5	Output	
					a_1	a_2
5	2	3	1	4	~ 0.5	~ -1

0.99966 0.99999