

HW# 6

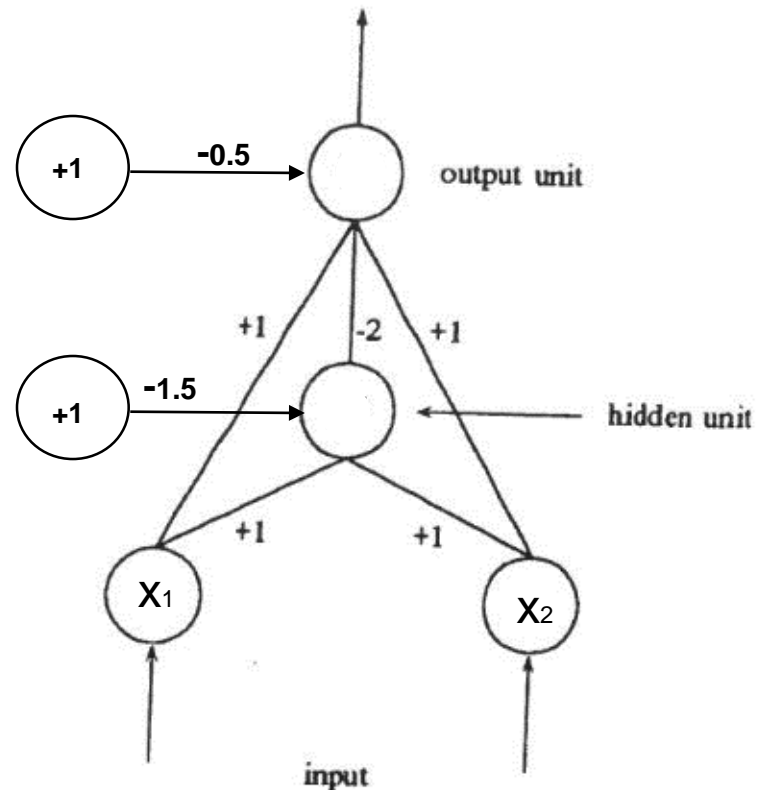
Application of Neural Network (CpE 520)

Due date: Oct. 1st , 2019

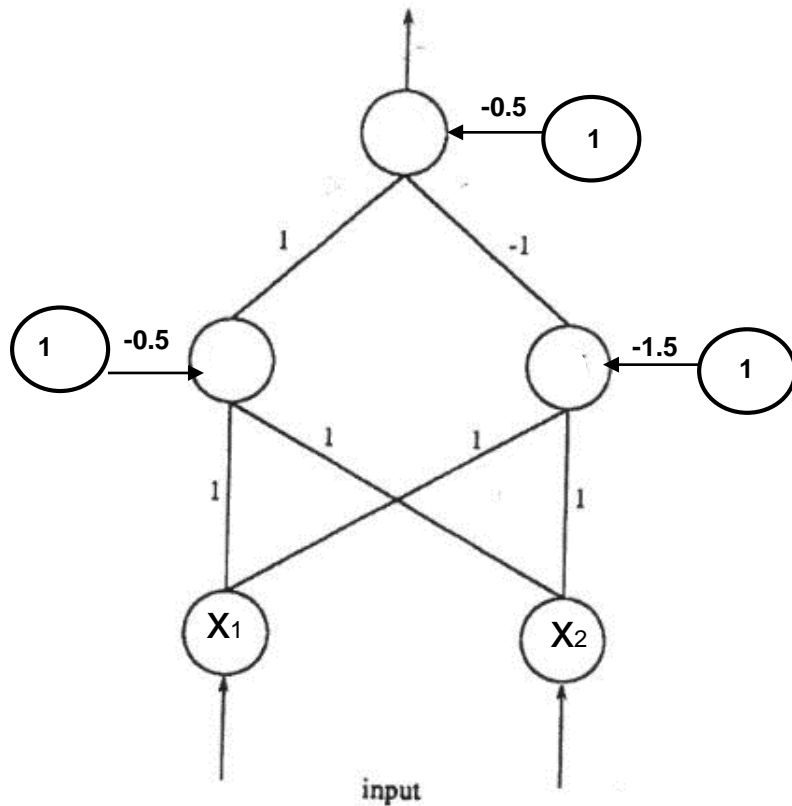
Read pp. 1-66 from Neural Networks and Machine Learning, Simon Haykin

Q.1: Figure below shows a neural network involving a single hidden neuron for solving XOR problem. Show this network solves the XOR problem by constructing (a) decision regions, and (b) a truth table for the network

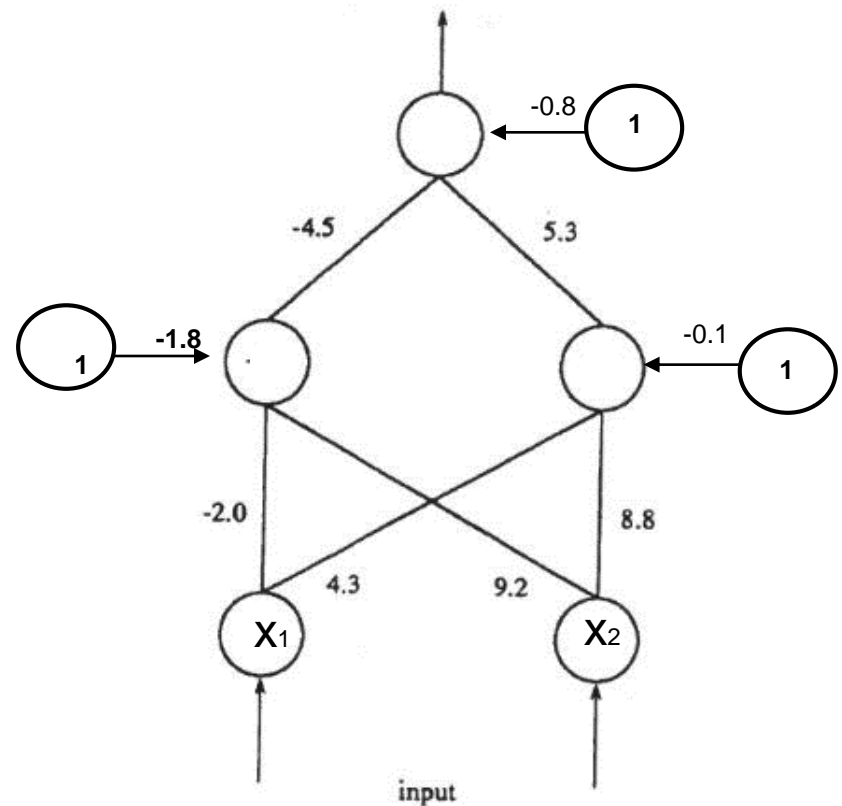
Input	Output
00	0
01	1
10	1
11	0



Q.2: For the following two networks show if they solve the XOR problem by constructing (a) their decision regions, and (b) their truth tables for the networks.



Input	Output
00	0
01	1
10	1
11	0



Input	Output
00	0
01	1
10	1
11	0