HW 7

1.1

Chart, histogram

Description automatically generated

A picture containing text

Description automatically generated

Letter

Description automatically generated with low confidence

A sheet of music

Description automatically generated with medium confidence

A picture containing letter

Description automatically generated

Shape

Description automatically generated with medium confidence

Text, letter

Description automatically generated

1.2

14Q)

1. linearly separable
2. linearly separable
3. linearly separable
4. not linearly separable

15Q)

1. Lets say x,y are Boolean variables and Z is the output.

The perceptron model for AND Function is

Z = sgn(x+y-1.5)

OR Function is

Z = sgn(x+y-0.5)

1. The disadvantage of using linear functions as activation functions for multilayer neural networks is that linear function’s result is always linear so having a multilayer network would be same as a linear network.