Bradley Reardon

6202 – HW 4

5/25/21

E.1

**W1** = [-1 2]

**W2** = [1 2]

**b** = -7

[-1 2] -1 + b = 0 = 7 + b = 0 🡪 b = -7

3

W1

W2

ii.

Hard Limit Layer

Input

2

2

a = hardlim(Wp+b)

a

n

2x1

2x1

+

W

b

2x1

2x2

2x1

P

iii.

E.2

i. Four classes

ii.

W2

1

1

W1

0

1

1

0

0

0

iii. n = [1 1] 1 + [-1 1] 1 + -2 = -2

-1 -1 0 -2