Neuroscience HW4 Lachin Naghashyar 98110179 Hopfield Model 1.1.1: We have 3 prototypes with 4 neurons: we know that weights of contributions of M prototypes dere obtained as here M=3 and N=4: W11 = 1 (+1+1+1+1) = 3 W12 = 4 (+1+1+1) = 3 W13 = 4 -1.1.2: we are looking for son [Ws]: Ws = [-1/2 -1/2 -1/2 /] - Sgn [WS] = [-1 by setting Si=[-1-1-1+1], we'll have Sin=sgn[[-2-2-11]] which is the same as S, , hence, we don't get any

of the prototypes as the output Lit looks like it converges

to a local minima)

