Problem 2) a) 3[0,0]=1 V[0,0]=1 V[1,0]=? V[2,0]=? (Just for Checking: V[5,0] = -1,05) V- Average of neighbors = 3 and we have: V=nlogr+m applying this rule to & [0,0] and V[0,0]: I am not sure if

doing this for the $r-\sqrt{1-1}$ $r-\sqrt{1$ nlag1 = -m -> log1 = -m and now for the VIIIoI we have: $V[1,0]-\frac{1}{4}(V[0,0]+V[1,1]+V[2,2]+V[1,-1])=8[4,0]$ r=1 v=1 v=1nlog1+m= 1/4 (2nlog \sqrt 2 + 1 + 3m + nlog 2) = 0

n log 1 + m = 4 (2nlog 2 + 1 + 3m) from the previous calculation, we know that log 1 = -m, -> m = -nlog 1 So we have: 11x -m + m > 1 (2nlog2 +1-3nlog1) 2nlog2+1-3nlog1-0-> $n(2\log 2 - 3\log 1) = -1$ -2 log 2 + 3 log 1 n = -0.72, m = 0-> V=nlogr+m V[5,0] = -0.72 log 5 +0 ~ -1.1587 which is a little off the amount that it should be