Markor Chain: $P(X_{NXI} = 2N | X_N = 2N_N)$ Marker property. (i) state only depends on perious state. as (i) sum of outgoing weight 7 2 ain=1 A Randam Walke generats posts $P(B) = \frac{2}{16}$ $P(C) = \frac{4}{16}$ P(A) = 4 for Stps +00. P(A) ~ 0.3591 Ity Amony Ports P(B) ~ 0.21245 p(0) \$ 0.43964

A FO.L 0.6 0.2 = A Aversason 0.5 0 0.5 T, A = [0.3 0.0.7] A = [0.41 0.17 0.41) = [0.34 0.25 0.41] Hartsmany State, To T - leign Vefn Eg

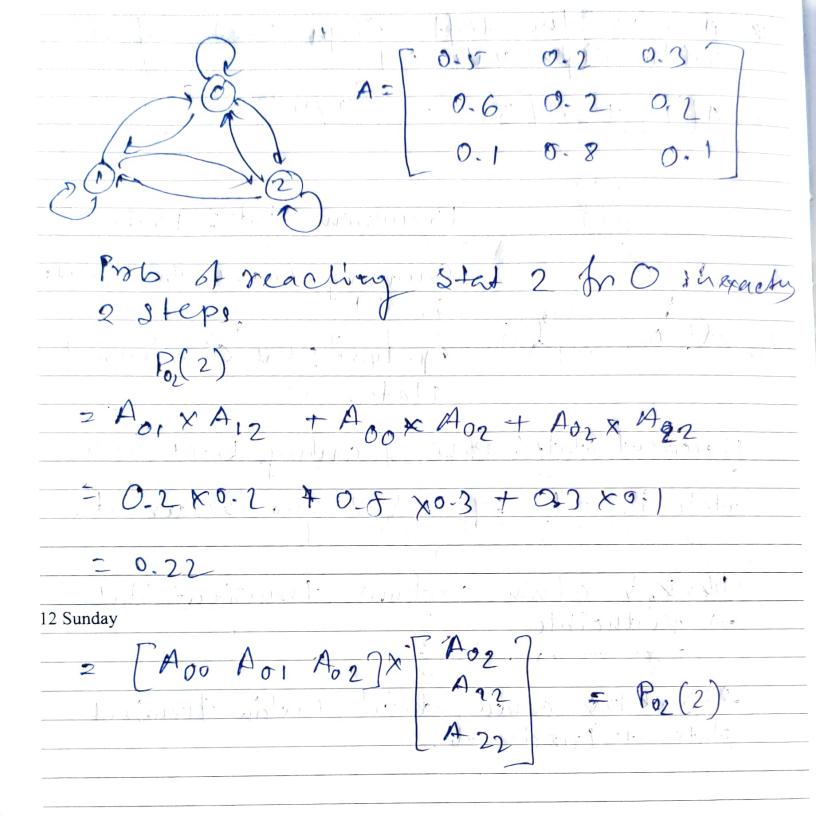
p 17 > is the left Right vector of A × N[1] + N[2] + - - - N[n] = 1 Transient state: Prob. of Canning basel to astate

is (1)

eg. here slat 0, a hansiert Recument State: Por of coming back to a state is = 1. 29. 11 & 2 and recurrent. Markov Chain contains transient stat - + Reducible

veark box chain dosent lantain transient

state of Irreducible



A,(2) = A;; => B(u) = Ais AN; = P; (00) - Stationry State (a)

argmax P(x=x1,x2--x4) +=+1,+1-4 P(Y|X)P(X)= argning P(Y) x = x x x 2 - ; Xn P(Y1X) = P(Y1/X1). P(Y2/X2) -- P(Y1/X) Der Der Xi P(X|Y) z angunay of P(X) Xi) $P(x_i|x_{i-1})$