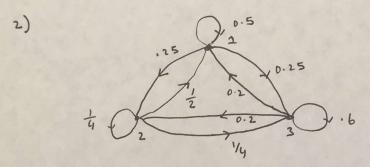


- a) find the transition metria P/4x4
- b) compute p" where p'= P p"
- c) Set d, = 0.8 and d2 = 0.4. Let p 10) = (1/4, 4, 4, 4, 4) and iterate p (k+1) = PT p(k)

 Plot the Components of p(k) Vs k for k = 0 to

 k = 100
- d) compare the bioniting Nahu of p(k) with portion pound in (b)



| State | out put distribution | |
|-------|----------------------|-----|
| | a | Ь |
| 1 | 314 | 14 |
| 2 | 1/2 | 1/2 |
| 3 | 1/4 | 3/4 |

from each Nate there can be two outputs: a and b. Distribution of output as a function of the Nate is given in Table above.

- a) what is the probability output sequence aabb?
- b) What is the most likeli sequence of states Corresponding to out-fut a a b b?