1 Regular Matrix (See 4.1)

• Alternative way to solve for limiting distribution (Unique solution to a linear equation + a normalization condition).

• Example: Find limiting distribution of doubly stochastic matrix.

• Two interpretations of limiting distribution: (i) long run probability distribution over states no matter where is the initial state. (ii) mean fraction of time that Markov Chain spends in some state.

2 Irreducible Markov Chains (See 4.3.1)

• Definitions of accessible, communicate between states.

• Communication is an equivalent relation and the equivalent class induced by it is the set of states communicate with each other.