

- **An absorbing state is**
  - a) A state where a MC gets trapped for ever
  - b) Not transient
  - c) California
  - d) Recurrent
  
- **If all states communicate in a MC with  $N < \infty$  states, then**
  - a) The MC is irreducible
  - b) The MC has one class
  - c) Not eccentric
  - d) All states are recurrent
  
- **A transient state is a state that**
  - a) Can be left without return with a probability  $> 0$
  - b) Is located in the Midwest
  - c) Is not recurrent
  - d) Will be visited a limited number of times
  
- **The limiting probabilities (if they exist) can be found by**
  - a) Solving  $N$  linear equations, where  $N$  is the number of states
  - b) Solving  $N+1$  linear equations
  - c) Solving  $N-1$  linear equations, and scaling the solutions so they add up to 1 (normalizing).
  - d) An educated guess.