Ha 7.7 Markov Chairs (10% Bus -> Non - Bus) Ex Business Majors (10% Bus -> 1000 Dus)
Non-Business Majors (20% Switch > bus)
80% Stay can Find transition matrix and steady state distr P-[09 0] [X y] [.9 »]
[2 v8]
Same
Jline ·9x+,2y=x->-olx+,2y=0 > .(x - .)y=0 a/x + i8y = y5 tedly - State [3] Ex Gambler's Rum. Ly Costs \$10. L> 50% Winning \$20 (net sam \$100) Ly 50% Winning nothing Ly you Stop when you have \$30 or States Amt of mongy in \$10 increments Ly Find trans matrix Ly Find General born of Steady State

[a b c d] [1, 0, 0, 0]
$$= [a, b, c, d]$$
 $a + 0.5b = a$ (so $b = 0$).

Max. $5c = b$ (c=0)

 $.5b = c$
 $.5c + d = d$ (c=0)

 $a + b + c + d = l$ (so $a + d = l = l - a$)

All Steady-State Vectors [a 0 0 1-a]
 $(0 \le a \le l)$