Ath 7.7 Markov Chains Non - Bus, Ex Bw. Majors 6 20% Switch to Logo/, remain busi Ly 10%, switch to 6 80% remain non-bus and steady state. Find transition matrix Not Trans, 18 Matrix B. P.9. -olx+.2y=07 Same line 9x + . 2y=x = ? olx +. Dy = 0 11 X + 8 8 2 - 9. X+4= (x + y = 1

1 - 24 0 reb [1 0 2/3] [X y] = [2/3 3]

A steady state Ex Gambler's Rim Ly You Start w/either \$0,\$10,\$20,\$30. Ly Spin ob lever Costs \$10 Ly If you win, you have not gain of \$10 (50%, chance)
Ly If you lose you get nothing (50%, chance).
Ly Stop when we have either \$0 or \$30 States Aut of & (in \$10 increments) Find transition matrix and steady state (s)

[Note A my state vector has 4 components - [a,b, gd]]

