$$P = \begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 4 & 0 & 3 \\ \frac{1}{2} & 0 & \frac{1}{2} & 0 \\ 0 & \frac{1}{3} & 0 & \frac{1}{3} \end{bmatrix} \qquad x = (I_{1} \times_{21} \times_{31} \times_{4}) \qquad x = x$$

$$T = \left(\frac{1}{3+2\kappa_2} \left( \frac{\chi_2}{3+2\kappa_2} \right) \frac{2}{3+2\kappa_2} \left( \frac{\chi_2}{3+2\kappa_2} \right) \right)$$

3+2×2 ≠0

$$\begin{cases} \frac{1}{3+2\kappa_{2}} > 0 \implies \left( \frac{3}{2} \right) \\ \frac{\kappa_{2}}{3+2\kappa_{2}} > 0 \implies \left( \frac{3}{2} \right) > 0 \end{cases} \times_{2} (3+2\kappa_{2}) > 0$$

$$x_2(3+2x_2)>0$$

$$-\frac{1}{2}$$

$$-\frac{3}{2}$$

$$-\frac{3}{2}$$

$$f(x) = x(3+2x)$$
  
 $x_2 < -\frac{3}{2} v x_2 > 0$ 

Answer ST= (3+2×2/3+2×2/3+2×2/3+2×2) 7
×200 TP= T P-stodastic matrix Hy P'- again a st-chestic (1-1) 1<sub>1</sub>2<sub>1</sub>3<sub>1</sub> 2<sub>1</sub>5<sub>1</sub>... 2-1) 3,9,5,6,... 2-3 4,5,6,... 1-2 1,2,3,4,5,... 2-3) 1,9,5,6,... [-3] 213,4,5,6,.. [-19) 3, 9, 5, 6, · -. (2-9) 2<sub>161</sub>7,8,... 3-1) 2,3,1,5,6,... (4->2) 2,3,4,5,... 3-2 3,4,5,6,... (5-3) 3,17,5,6,... Ph= [pn(i,j)]iij

proheb. Hat you

it is prom

in n steps (9-9) 5,5,6,... 3-34) 1,5,6,...

Noor at the smallest number at every list (6) which appears +c,1' p 6 >0 all entries of p6 are stricts how there P6 (i,j)>0 Giniting the distribution P= \[ \frac{1}{2} \frac{1}{2} \] P= 0.33 0.35 0.33 0.33 0.33 0.33 0.33 0.35 0.35 1 (1-1) 2,3,5,... (1-2) 1,2,3,.. Gin P = \[ \frac{3}{3} \frac{1}{3} \frac{1 regular (1-3) 1,2,3,... TP=1 Stationers TT= (3,3,3) => Giniting  $(\frac{1}{3}, \frac{1}{5}, \frac{1}{3})$