$$|A| = \left| \left( \begin{array}{cc} 2 & 3 \\ 0 & 3 \end{array} \right) - \left( \begin{array}{cc} 0 & 3 \\ 0 & 3 \end{array} \right) + \left( \begin{array}{cc} 0 & 2 \\ 0 & 0 \end{array} \right) \right|$$

$$= \left| \left( \begin{array}{cc} 6 & 0 + 0 \end{array} \right) = L$$

$$\begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 3 \\ 0 & 0 & 2 \end{bmatrix} \begin{bmatrix} \chi_1 \\ \chi_2 \\ \chi_3 \end{bmatrix} = \begin{bmatrix} \chi_3 \\ \chi_2 + 3\chi_3 \\ 2\chi_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix} \rightarrow \chi_{\chi=1} = \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$$

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Spann 
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  $P(C(S) = 0.5)$ 

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= 18/193-18+15+6(0)3-6011

= = = 123 - = 1211 - = (450,637)

4. your Ply). 7 1(1-y). 1/2

3 y= hz &y = 4

$$P(S \mid C) = \frac{P(S,C)}{P(C)} = \frac{P(C \mid S) P(S)}{P(C \mid S) P(S)} + \frac{0.5 \times P(S)}{1.5 \times P(S) + 0.01 \cup 1-P(S)}$$

Entropy =  $\sum P(x) |_{0} y \frac{1}{p(y)} = \frac{q_{1}y^{2}}{f_{2}^{2}} + \frac{f_{2}y^{2}}{f_{3}^{2}} + \frac{2}{f_{4}^{2}} ((a_{3}^{2} 5 - 1)^{2})$   $\frac{y}{f_{4}} = \frac{3}{f_{5}^{2}} ((a_{3}^{2} 5 - 1)^{2}) + \frac{2}{f_{5}^{2}} ((a_{3}^{2} 5 - 1)^{2})$ 

P(y) (og Ry) + P(1-y) (og R(y)) = 7 (og 4 + 6 /og 1/1

05 92.59%

$$P(S) = 0.2$$
  
 $P(C(S) = 0.5$ 

$$\frac{1}{\sqrt{2}} \int_{-\infty}^{\infty} \frac{1}{\sqrt{2}} \int_{-\infty}^{\infty$$

$$-(\sqrt{\frac{e^{-\sqrt{x}}}{1+e^{-\sqrt{x}}}} - \sqrt{x} - \frac{1}{\sqrt{1+e^{-\sqrt{x}}}}) + e^{-\sqrt{x}}$$