$$1, \frac{1}{1}$$
  $(x) = \frac{2}{2}$ 

$$W_{t+1} = W_t - X + (W_t)$$

$$0 = 2 - 4.(2.2) = 0 = 0,5$$

2, Go; 
$$X = Small$$
, Dark, Brown

A)  $P(xes | X) = \frac{P(X | xes)}{P(X)}$ 

$$\frac{1}{3}$$
  $\frac{0}{3}$   $\frac{3}{3}$ 

$$P(Yes | X) = 0$$

$$Tuoy w:$$

$$P(X | No) = \frac{P(X | No) \cdot P(No)}{P(X)}$$

$$P(X) = \frac{2}{3} \cdot \frac{3}{3} \cdot \frac{3}{3} = \frac{2}{3}$$

$$P(No) = \frac{5}{8}$$

$$P(X) = P(X | No) \cdot P(No) + P(X | Yes) \cdot P(Ya)$$

$$= \frac{2}{3} \cdot \frac{5}{8} + O = \frac{5}{12}$$

$$= \lambda P (No | X) = 1$$

$$= \lambda Label Clia X la No$$

$$3. A = \begin{bmatrix} 11 \\ -13 \end{bmatrix} = \lambda A - \lambda I = \begin{bmatrix} 1-\lambda & 1 \\ -1 & 3-\lambda \end{bmatrix}$$

$$= \lambda Label Clia X la No$$

$$= \lambda A - \lambda I = \begin{bmatrix} 1-\lambda & 1 \\ -1 & 3-\lambda \end{bmatrix}$$

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$$= \lambda$$

$$\begin{bmatrix}
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-1 & 1
\end{bmatrix}
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5, Quy ước dươn tinh = 
$$t$$

$$\hat{A}_{m} + t_{mh} = -$$

$$P(bênh) = 1/1000$$

$$P(+|bênh) = 99\%$$

$$P(+|bênh) = 2\%$$

$$=) P(bênh|+) = \frac{P(+|bênh).P(bênh)}{P(+)}$$

$$P(+) = P(+|bênh).P(bênh) + P(+|bênh).P(bênh)$$

$$= 95\%. 1000 + 2\%. 1000$$

$$= 0,02097$$

$$= ) P(benh | +) = \frac{11}{233} \approx 4,72\%$$