i) FALSO  

$$\Lambda = \rho(1) = a_1 + b_1 a_2 + b_1 b_2 a_3 \dots$$

$$\Lambda > 1 \iff \lambda > 1$$

Sou las files que suman 
$$1$$
  $\sum_{j=1}^{m} P_{ij} = 1$ 

$$\hat{P}_{n} = \left(\frac{1+p}{2}\right)^{n} = \frac{1}{2^{n}} \sum_{k=0}^{n} {n \choose k} p^{k} > 0$$

## MODELO B

$$\begin{pmatrix}
\Lambda & 0 & 0 \\
0 & 0 & \Lambda \\
0 & \Lambda & 0
\end{pmatrix}$$

iii) Si porque 
$$\lambda = 1$$
 es autovalor ja que  $\sum_{j=1}^{n} P_{ij} = 1$   $P_{e} = e$