$$P(X_{N}=z) = \sum_{n=\delta}^{\infty} P(X_{n}=x \mid N=n) P(N=n)$$

$$P(x) = \sum_{n=\delta}^{\infty} P(x) = \sum_{n=\delta}^{\infty$$

$$P(X_N = rc, N = n) = P(X_N = x | N = n) P(N = n)$$
  
Probabilidad condicional.

$$P(N=n, X_N=x) = P(N=n \mid X_N=x) P(x=x)$$

Necestaré esto
$$P(X_N = x) = \sum_{n=0}^{\infty} P(X_N = x | N = n) P(N = n)$$

$$(PAb total)$$

$$P(N=n \mid X_{N}=x) = \frac{P(N=n, X_{N}=x)}{P(X_{N}=x)}$$

$$= \frac{P(X_{N}=x)}{P(X_{N}=x)} \text{ Hip Boson}$$

$$P(X_{N}=x) \text{ Hip Boson}$$

$$P(X_{N}=x) \text{ Nen } P(N=n)$$

$$= \frac{P(X_{N}=x)}{P(X_{N}=x)} \in \text{ Calculas antes.}$$

En el masos (b)

(b) 
$$E[XN] = Z \times P(XN = x)$$

(c) 
$$P(x_{N}=x, Y_{N}=y) = P(x_{N}=x) P(x_{N}=y)$$