$$V \times c \, b(\omega) = \frac{ai}{e_{y} \gamma_{y}}$$

Distribution of x given other X+Y= ~ can be shown by

$$P(x=n \mid x+y=n)$$

$$P(x=n \mid y=n-x) = \frac{P(x,y)}{P(x+y=n)}$$

$$P(X+Y=N) = \sum_{m=0}^{\infty} P_{X}(m) P_{Y}(m-m)$$

$$= \sum_{m=0}^{\infty} \left(\frac{-\lambda}{2} \frac{\lambda^{m}}{\lambda^{m}}\right) \left(\frac{-\mu}{2} \frac{\mu^{m}}{\lambda^{m}}\right)$$

$$= \frac{(\lambda+\mu)}{2} \sum_{m=0}^{\infty} \left(\frac{-\lambda}{2} \frac{\lambda^{m}}{\lambda^{m}}\right) \left(\frac{-\mu}{2} \frac{\mu^{m}}{\lambda^{m}}\right)$$

$$P(X,Y) = P_{X}(X=n) P_{Y}(Y=0) \left[\text{Both an independent random} \right]$$

$$= P_{X}(X=n) P_{Y}(Y=n-m)$$

$$= P_{X}(X=m) P_{Y}(Y=n-m)$$

$$= \frac{e^{\lambda_{1}}}{e^{\lambda_{1}}} \left(\frac{e^{\lambda_{1}}}{m!} \left(\frac{e^{\lambda_{1}}}{n^{-\omega_{1}}} \right)^{\frac{1}{2}} \frac{e^{\lambda_{1}}}{m!} \left(\frac{e^{\lambda_{1}}}{n^{-\omega_{1}}} \right)^{\frac{1}{2}} \frac{e^{\lambda_{1}}}{n!} \left(\frac{e^{\lambda_{1}}}{n^{-\omega_{1}}$$

Using (1), (2) $\frac{1}{2}$ (3) $\frac{1}{2}$ (4) $\frac{1}{2}$ (4) $\frac{1}{2}$ (5) $\frac{1}{2}$ (7) $\frac{1}{2}$ (8) $\frac{1}{2}$ (8) $\frac{1}{2}$ (9) $\frac{1}{2}$ (1) $\frac{1}{2}$ (1)

Q3) fiven: P(x75)=1 1/2 (1) La this implies _ d tx (no dia = 0 - 0 = 1/ 1 m - 1/ 19 (M+x) (M: P(X < 0) = 0) Econ Jang (modify ? = Jong (wow) - JOg (wow) dr. m Fx(m) - J Fx(m)dm $\omega = \omega + (x - \omega) - (1 - b(x - \omega) - \omega)$ $\omega = \omega + (x - \omega) - \omega + (x - \omega) = 0$ $\omega = \omega + (x - \omega) - \omega + (x - \omega) = 0$ $\omega = \omega + (x - \omega) = 0$ -mp(x>m) + Jp(x>m)dm 16 J P(X>0) (8 J P(X>m) dm - on (1- Fx(m)) | 0 since lin Fx(m)=1 m (1- Fx(m) / = 6 I b(x>2) qu , perce brossy

$$P(m) = N(m)m, L)$$

$$P(m) = N(m)m, L)$$

$$P(m) = \sum_{k=1}^{\infty} P(m) \ln \left(\frac{P(m)}{k}\right) \ln \left(\frac{P(m)$$

5,
$$\int_{0}^{1} (x, y) = \frac{1}{2\pi (1 - \rho^{2})^{1/2}} \exp \left(\frac{1}{2(1 - \rho^{2})} (m^{2} - 2\rho my + b^{2}) \right)$$

God $(x, y) = \frac{1}{6\pi} (x, y) = \frac{$

This vistegral will be prosmal distribution.

=
$$P \int \int \frac{1}{x^2} \frac{x^2}{\sqrt{2\pi}} dx$$

= $P = (x^2)$; $ODE(x^2) = VODE(x) + E(x)^2$
= $P = (x^2)$; $ODE(x^2) = 1 + 0$
= $P = (x^2)$; $ODE(x^2) = 1$

$$E(x_{1}, x_{2}) = \frac{1}{2} \left(\frac{1}{2} \frac{1}{2} \frac{1}{2} \right) \left(\frac{1}{2} \frac$$