```
p(A|B) = \frac{p(AnB)}{p(B)} \qquad Var(x) = \frac{\chi^{r} - \frac{\chi}{\chi}}{\frac{\chi^{r}}{\sqrt{\mu}}} = \frac{\rho(\lambda)}{\sqrt{\mu}} = \frac{\rho(B)}{\sqrt{\mu}} = \frac{\rho
                                                                                                                                                                                                                              E(X) = \sum_{x} x \cdot f_{X}(x)
E(X) = \int_{-\infty}^{\infty} x \cdot f_{X}(x) dx
                                                                                                                                                                                                                                          E(g(\lambda)) = \int_{-\infty}^{+\infty} g(x) \cdot f(u) dx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               الرمام) توام درتسر
                                                                                                                                                                                                                F(g(x,Y)) = E [g(x,y)fx,y(x,y)
                                     ight (ax +b) = a E(x) +b
                                           Jew, y, x: E(XY) = E(x). E(Y)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               واربات رتبونها دن،
                                                                                                                                                                      Var(X) = E(X^r) - (E(X))^r
                                                  Vor(c) = 0
                                             Var(cxtb) = a var(k)
                                                                                                                                                                                                                                                                             ترزيع بوامول: لرلساد فوقعمها در ما جلرى زين ما أمي موردنوا
                                     \lambda = nP \leftarrow \rho \rightarrow \infty \qquad \text{interpolation of the control o
                            Y_{j}X_{j}
=> Cov(X, Y) = 0
(u_{j}X_{j})
(u_{j}X_{j})
(u_{j}X_{j})
(u_{j}X_{j})
(u_{j}X_{j})
(u_{j}X_{j})
```

 $G_{i}^{i} = \begin{cases} f_{x}(x) = \begin{pmatrix} h \\ \lambda \end{pmatrix} p^{x} (1-p) & \mu = G(x) = hp \\ vay x = hp \\ \lambda & booth \end{cases}$ $G(x) = \begin{cases} \frac{1}{\lambda} = \begin{cases} \frac{1}{\lambda} e^{-\frac{x}{\lambda}} & x \\ \lambda & booth \end{cases}$ $G(x) = \lambda^{2}$

 $N! = \int_{0}^{\infty} x^{2}e^{-x}dx$ $N! = \int_{0}^{\infty} x^{2}e^{-x}dx$