$E(3\sqrt{3}) = \int_{-\infty}^{+\infty} \int_{-\infty}^{+\infty} max(x,y^3) p(x) p(y) dxdy$

$$P_{133} 2 \frac{3}{3} \sim L(\lambda_1 u). p(x) = \frac{1}{2\lambda} e^{-\frac{1}{\lambda} |\lambda_1 - u|} (\lambda_{70})$$

$$= \frac{1}{2\lambda} e^{-\frac{x}{\lambda}}$$

$$= \frac{1}{2\lambda} e^{-\frac{\lambda}{\lambda} + \frac{\lambda}{\lambda}} \qquad \lambda \geq u$$

$$= \frac{1}{2\lambda} e^{\frac{\lambda}{\lambda} - \frac{\lambda}{\lambda}} \qquad \lambda \leq u$$

$$= y(x) = \frac{2x}{1} e^{\frac{x}{2}}$$

$$E(3) = \int_{-\infty}^{+\infty} P(x)$$

$$E(3) = \int_{-\infty}^{+\infty} p(x) \cdot x \, dx = \int_{-\infty}^{\infty} p(x) \cdot x \cdot dx + \int_{N}^{+\infty} p(x) \cdot x \cdot dx$$

= = + = = 1

 $= 2x^2 + 1$

= \frac{1}{2}e^{(\frac{1}{\beta} - \frac{1}{\beta})} \frac{1}{\beta} + (-\frac{1}{2})e^{(-\frac{1}{\beta} + \frac{1}{\beta})} \frac{1}{\beta}

+ July 22 6 - 1 (x2-10) 2 9x

D13)= E13)-E13)=(2x+1)-1=2x

5. E(3)=1. D(3)= \(\frac{1}{\lambda_{=0}}\)[1-E(3)]^2P(x) d(x)

$$2-\frac{\lambda}{\lambda}+\frac{\lambda}{\lambda}$$
 $\frac{\lambda}{\lambda}$

$$\frac{N}{2}$$

$$-\frac{\lambda}{\lambda} + \frac{\lambda}{\lambda}$$
 $\lambda \geq u$

 $E(3^2) = \int_{-\infty}^{+\infty} p(x^2) x^2 dx = \int_{-\infty}^{+\infty} \frac{1}{2\lambda} e^{-\frac{1}{\lambda}|x^2 - \lambda|} x^2 dx$

= $\left[-\sqrt{1} \frac{1}{2\lambda} e^{-\frac{1}{\lambda}(x^2 u)} + \sqrt{1} \frac{1}{2\lambda} e^{-\frac{1}{\lambda}(u - x^2)} + \sqrt{1} \frac{1}{2\lambda} e^{-\frac{1}{\lambda}(u - x^2)} + \sqrt{1} \frac{1}{2\lambda} e^{-\frac{1}{\lambda}(u - x^2)} + \frac{1}{2\lambda}$

其中P(X)=P个信有析人拿对多=(分)(====+++1)~~~+(-1)~~~(n-x)]

 $D(3) = \sum_{n=0}^{N} (1 - 1)^{2} \frac{n!}{n!} \frac{1}{(n-n)!} \frac{1}{2!} \frac{1}{3!} + \frac{1}{(n-1)!} + \dots + (-1)^{n-1} \frac{1}{(n-n)!}$

$$-\frac{\lambda}{\lambda} + \frac{\lambda}{\lambda}$$

$$-\frac{\lambda}{4} + \frac{\lambda}{N}$$
 $\lambda > N$