$$PdF = \frac{1}{b-a}$$

$$E(x) = \int_{0}^{5} x (x) dx$$

$$\frac{3}{5} \times \frac{1}{b-1} dx - \frac{1}{5-a} \left( \frac{x^{2}}{2} \right) \Big|_{0}^{5} = \frac{b^{2} - a^{2}}{2(6-a)} \left( \frac{6-a}{b} \right)^{2}$$

$$V(x) = E(x^{2}) - \left( \frac{a+b}{2} \right)$$

$$E(x^{2}) + \frac{3}{5} x^{2} + x dx = \frac{1}{b-a} \left( \frac{x^{2}}{2} dx \right)$$

$$F(x) = \frac{1}{2} = \frac{3}{50} \cos 60 + x$$

$$F(x) = P(x - 1) = \frac{1}{2}$$

$$a + \frac{3}{2} a \left( \frac{a+b}{2} \right) = \frac{1}{2} x + \frac{1}{2} a \left( \frac{a+b}{2} \right)$$

$$a + \frac{3}{2} a \left( \frac{a+b}{2} \right) = \frac{1}{2} x + \frac{1}{2} a \left( \frac{a+b}{2} \right)$$

F(x)=P(x < K()) 1-e/x= median xnfx)Po xnN(m, 5) E(x) = 1 (N-N) P(XEX) D(X-WCO-M P(ZEX-U) XM

$$P(Z \le Z^{*}) = I_{A} \Rightarrow$$

$$Z^{*} = 0$$

$$X = M = 0 = X = M$$

$$Med_{A} \text{ of } X \sim n(M, G^{2})$$

$$X_{1}, X_{2}, X_{3} \stackrel{\text{Ine po}}{\text{log}} (P(X))$$

$$E(X_{1} + X_{2} + X_{3})$$

$$E(X_{1} + 2E(X_{2}) + 3E(X_{2})$$

$$X + 2X_{1} + 3X_{2} = GX$$

$$X - V = V(X_{1}) + 4V(X_{2}) + 9V(X_{3})$$

$$E(X_{1} + X_{2} + X_{3}) = E(X_{1} + X_{2}) = E(X_{1} + E(X_{2}))$$

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$$E(X_{1} + X_{2} + X_{3} + X_{3})$$

UE OFM = M=M 3 ZD E/MAN 1/2 (Ex), t. [Exn)  $\frac{1}{x} \frac{1}{2} \frac{1}{n} \frac{1}$ V(XIX2 L(XX)+UQZ) MS P(X7 dth) = P(X7d)

XNEXP(X), P(XZ)P(XZ/b)=e=>b P(X/dh)= = MLE OF M=X AZKix) Z