对女生 dx 对独作单线 correlation between U and V 質dy 对X抽作重线 (orr(u,v) = Cor(u,v) = g(u,v) $f_{xy}(x,y) = \frac{1}{\sqrt{2\pi}} \exp(-\frac{x^2}{2}) \cdot \frac{1}{\sqrt{2\pi}(1-\rho^2)} \exp(-\frac{(y-\rho_x)^2}{2(1-\rho^2)})$ PP fx(X) = = exp(-\frac{\chi^2}{2}) ~ Normal (0.1). ty(y)= = exp(- (y-Px)2) ~ Normal (Px, 1-p2) HIY] = H[E[YIX=x]] = E[YIX=x]x (for tix) dx = SyfyIX=x) dy. So fords $X, Y \text{ independent} \quad Z=X+Y$ $P(Z=n)=P(X+Y=n)=\sum_{k=-n}^{\infty}P(X=n-k)P(Y=k) \quad \begin{cases} x \sim \text{unform}(0,1) \\ Y \sim \text{unform}(X,1) \end{cases}$ $f_{Y|X=X} = \frac{1}{1-x}$ $M_X(t) = \mathbb{E}[e^{tX}] = \int_{-\infty}^{\infty} e^{tx} f(x) dx$ X, Yindependent $X \sim Normal(M6^2)$ $M_X(t) = 10e^{\mu t + \frac{1}{2}t^26^2}$ $M_{X+Y}(t) = M_X(t) \times M_Y(t)$ Mx(f)=E[X]]以t为变量
Mx(cf)=E[X] X~Exp(人) Mx(t)= 一t (t人人) Z=X+Y, X, y, independent. fz(z) = [f(x) fy(z-x) dx