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Diskrit

$$E(x) = \sum x\, p(x) = \sum_{x=1}^{3} x \cdot \frac{1}{3} = \frac{1}{3} + \frac{2}{3} + \frac{3}{3} = \frac{6}{3} = 2$$

$$Var(nx) = n^2\, Var(x)$$

$$Var(Y) = \frac{1}{64} \cdot 8\ Var(x) = \frac{1}{8} Var(x)$$

$$\frac{14}{3} - 4 = \frac{2}{3} \quad 4\theta = \frac{1}{12}$$

$$M_x(t) = (1 - 2t)^{-r/2} \qquad \frac{r}{2} = n \qquad r = 2n$$

$$\bar{x} = \frac{\sum x_i}{n}$$

Gamma $\rightarrow$ $(1 - \beta t)^{-\alpha}$ $\rightarrow t$

$\theta$

$\downarrow \frac{2t}{\theta}$ $\left(1 - \theta \frac{2t}{\theta}\right)^{-1}$

$0 < y_1 < y_2 < y_3 < 1$

$$n!\, f(y_1) f(y_2) f(y_3) = 6 \int_0^{y_3} \int_0^{y_3} \cdots dy_2\, dy_1$$

$$\frac{n!}{(k-1)!(n-k)!} (F(y_k))^{k-1} (1 - F(y_k))^{n-k} f(y_k)$$

$$\frac{3!}{2!} = 3$$