Mean, Variance and S.D of Brienial Biskibution

$$\mu = \frac{3}{4} 2 p(x)$$

$$= \frac{3}{4} 2 \left[n (x)^{3} q^{4-2} \right]$$

$$= 0 + 1 \left[n (x)^{2} q^{4-1} \right] + 2 \left[n (x)^{2} q^{4-2} \right] + 3 \left[n (x)^{2} q^{4-2} \right] + \dots$$

$$+ \dots + n \left[n (x)^{4} q^{6} \right]$$

$$= n \cdot p q^{4-1} + 2 \left[n \right] - p^{2} q^{4-2} + 3 \left[\frac{n!}{(n-1)!} p^{2} q^{4-3} \right] + \dots$$

$$= n \cdot p \cdot q^{n-1} + 2 \left[\frac{n!}{(n-1)!} p^{2} q^{n-2} \right] + 3 \left[\frac{n!}{(n-3)!} p^{3} q^{n-3} \right] = \cdots$$

$$+ \cdots n \left[p^{n} \right]$$

$$= \Lambda P q^{\Lambda^{-1}} + 2 \left[\frac{\Lambda(\Lambda-1)(\Lambda-2)!}{(\Lambda-1)!} p^{L} q^{\Lambda-2} \right] + 3 \left[\frac{\Lambda(\Lambda-1)(\Lambda-2)!}{(\Lambda-3)!} p^{2} q^{\Lambda-3} \right] + \dots + \Lambda p^{\Lambda}$$

$$= \Lambda p q^{\Lambda-1} + n (\Lambda-i) p^2 q^{\Lambda-2} + n (\Lambda-i) (\Lambda-1) p^3 q^{\Lambda-3} + \dots + \Lambda p^n$$

$$= \Lambda p \left[q^{\Lambda-1} + e (\Lambda-i) p q^{\Lambda-2} + (n-1) (\Lambda-2) p^2 q^{\Lambda-3} + \dots + p^{\Lambda-i} \right]$$

$$= \Lambda p \left[q + p \right]^{\Lambda-1}$$

$$= np (i) = np$$

-1/6- july 1/2 - Marsh Carl

Bdus = 12 - 05 - 5

$$V = \frac{1}{3} \stackrel{?}{=} \stackrel{?}{=} p(x) - \mu^{2}$$

$$Couridu, \stackrel{?}{=} \stackrel{?}{=} \stackrel{?}{=} p(x) = \frac{1}{3} \stackrel{?}{=} \{a(x-1) + 1\} p(x)$$

$$= \frac{1}{3} \stackrel{?}{=} a(x-1) p(x) + \frac{1}{3} a p(x) = \frac{1}{3} 2 (x-1) [a(x) p^{2} q^{A-2}] + hp$$

$$= 0 + 0 + 2 \cdot 1 \left[\frac{1}{4} \stackrel{?}{=} p^{2} q^{A-2} + 3 \cdot 2 \left[\frac{1}{4} \stackrel{?}{=} p^{2} q^{A-2} + \dots \right] + hp$$

$$= 2 \left[\frac{n!}{(a-2)!} \stackrel{?}{=} p^{2} q^{A-2} + 3 \cdot 4 \cdot 2 \left[\frac{n!}{(n-3)!} p^{2} q^{A-2} + \dots \right] + hp$$

$$= 2 \left[\frac{n(m)(n-2)!}{(n-1)!} p^{2} q^{A-2} + 3 \cdot 2 \left[\frac{n(m)(n-1)!}{(n-2)!} p^{3} q^{A-2} + \dots \right] + hp$$

$$= n(n-1) \stackrel{?}{=} p^{2} q^{A-2} + n(n-1)(n-1) p^{2} q^{A-2} + \dots + n(n-1) p^{4} + hp$$

$$= n(n-1) \stackrel{?}{=} p^{2} (1) + np$$

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$$=$$

Mean (H):

$$\mu = \sum_{n=0}^{\infty} \pi \rho(n)$$
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 $\mu = \sum_{n=0}^{\infty} \pi \left(\frac{m^2 e^{-M}}{4\pi}\right)^2$
 $\mu = 0 + \left[\frac{me^{-M}}{4\pi} + \frac{m^2 e^{-M}}{4\pi} + \frac{m^2 e^{-M}}{4\pi} + \dots\right]$
 $\mu = me^{-M} \left(1 + \frac{m}{11} + \frac{m^2}{2\pi} + \dots\right)$
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 $\mu = me^{-M} \left(1 + \frac{m^2 e^{-M}}{2\pi}\right) + \frac{3 \cdot 2\left(\frac{m^3 e^{-M}}{2\pi}\right)}{2\pi} + 4 \cdot 3\left(\frac{m^4 e^{-M}}{4\pi}\right) + \dots$
 $\mu = m^2 e^{-M} \left(1 + \frac{m^2 e^{-M}}{2\pi} + \frac{m^2 e^{-M}}{2\pi}\right) + 4 \cdot 3\left(\frac{m^4 e^{-M}}{4\pi}\right) + \dots$
 $\mu = m^2 e^{-M} \left(1 + \frac{m^2 e^{-M}}{2\pi} + \frac{m^2 e^{-M}}{2\pi}\right) + \dots + m$
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