$$\lim_{n \to \infty} \frac{n!}{n!} \left(\frac{\lambda}{n} \right)^{\lambda} \left(1 - \frac{\lambda}{n} \right)^{n-\lambda}$$

$$= \lim_{n \to \infty} \frac{n(n-1) \cdot \dots \cdot (n-\lambda+1)}{n!} \left(\frac{\lambda}{n} \right)^{\lambda} \left(1 - \frac{\lambda}{n} \right)^{\lambda}$$

$$= \lim_{n \to \infty} \frac{n(n-1) \cdot \dots \cdot (n-\lambda+1)}{n!} \left(\frac{\lambda}{n} \right)^{\lambda} \left(1 - \frac{\lambda}{n} \right)^{\lambda}$$

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$$\varphi_{x}(t) = e^{\lambda(e^{t} - 1)}$$

$$\varphi'(t) = e^{\lambda(e^{t} - 1)} \lambda e^{t}$$

$$\varphi''(t) = e^{\lambda(e^{t} - 1)} \lambda e^{t}$$

$$+ (\lambda e^{t})^{2} e^{\lambda(e^{t} - 1)}$$

$$+ (\lambda e^{t})^{2} e^{\lambda(e^{t} - 1)}$$

$$= (\lambda e^{t})^{2} e^{\lambda(e^{t} - 1)}$$