HW4 $P(T>t) = P(N(t)=0) + \sum_{n=1}^{\infty} P(X(t) < \lambda | N(t)=n) P(N(t)=n)$ = e-xt + \(\int \) \(\frac{1}{2} \) \(\frac{1 E[T] = \(\int P(T) +) at = \(\int e^{-xt} dt + \int \int \int \frac{du^n}{(n-1)!} x^n e^{-u x} \text{out} \hat{e}^{-xt} dx $\int_{0}^{\infty} \mu \sum_{n=1}^{\infty} \frac{(nx)^{n-1}}{(n-1)!} e^{-\mu x} dx$ Ly nenx 6-nx qx