(3) 
$$\lambda(t) = a \sin^2(\omega t) + b \cos^2(\omega t)$$
 $\lambda = \int_0^2 \lambda(t) dt$ 
 $\lambda = \int_0^2 \lambda$ 

$$\lambda = 4 \int_{0}^{480} \frac{1 - (a \cdot 2 \times 0 \cdot 0 \times xt)}{2} \cdot dt + \int_{0}^{480} \frac{1 + (a \cdot 2 \times 0 \cdot 0 \times xt)}{2} \cdot dt$$

$$= 4 \int_{0}^{480} \frac{1}{2} \cdot \frac{1}{0 \cdot 1 \times 2} \cdot \frac{1}{0} \cdot \frac{1}{0 \cdot 1 \times 2} \cdot \frac{1}{0} \cdot \frac{1}{0} \cdot \frac{1}{0 \cdot 1 \times 2} \cdot \frac{1}{0} \cdot \frac{1}{0} \cdot \frac{1}{0 \cdot 1 \times 2} \cdot \frac{1}{0} \cdot \frac{1}{0} \cdot \frac{1}{0 \cdot 1 \times 2} \cdot \frac{1}{0} \cdot \frac{1}{0} \cdot \frac{1}{0 \cdot 1 \times 2} \cdot \frac{1}{0} \cdot \frac{1}{0}$$

975.364

+ 236.159

= 1211.523

So, how we have to me thin it to compute,  $\rho\left(0 \le N \le 1247\right) = \frac{1247}{m=0} \frac{(1211.523)^m e^{-1211.523}}{1247!}$  = 0.8492  $\rho\left(N > 1247\right) = 1 - 0.8492$  = 0.1508