Problema 16

$$X \sim \exp(i\lambda)$$
 $A = 2$
 $\begin{cases} (x) = A e^{-Ax} \prod_{(0,i,0)(x)} (x) \\ x < 0 \end{cases}$
 $F(x) = \begin{cases} 0 & x < 0 \\ x & d = -e^{-Ax} \end{bmatrix}_{0}^{x} = 1 - e^{-Ax} \times 20$
 $P(X > 2) = 1 - P(X = 2) = 1 - F(2)$
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$$P(X=3) = F(3) - F(3) = 0$$

= $P(X=3) - P(X=3)$

$$= P(X=3, U=X=Y) = P(U=X=3)$$

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$$=\frac{F(3)}{F(4)}=\frac{1-e^{-6}}{1-e^{-8}}=\frac{0'9975}{0'9997}$$

$$E(X) = \int_{0}^{\infty} x \cdot 2e^{-2x} dx$$

$$= -x \cdot e^{-2x} \int_{0}^{\infty} + \int_{0}^{\infty} e^{-2x} dx$$

$$= \frac{e^{-2x}}{2} \int_{0}^{\infty} = \frac{1}{2} dx$$

$$E(X) = \frac{1}{\lambda} = \frac{1}{2}$$