

My racus opynnesiero poznoginy $=\frac{\lambda}{2}\left(\frac{e^{\lambda y}}{\lambda}\right)^{2} + \frac{2}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}$ $-\frac{\lambda}{2}\left(\frac{e^{\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}$ $-\frac{\lambda}{2}\left(\frac{e^{\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}$ $-\frac{\lambda}{2}\left(\frac{e^{\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}$ $-\frac{\lambda}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}$ $-\frac{\lambda}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}\left(\frac{e^{-\lambda y}}{\lambda}\right)^{2} + \frac{e^{-\lambda y}}{2}\left(\frac$ $f_{x_{x}}(x) = \begin{cases} 1 & e^{-\lambda x} \\ 2 & x \neq 0 \end{cases}$ Ulysacuo mai. emogibanena $\lambda = \frac{1}{2} \begin{cases} x \cdot e^{-\lambda x} \\ x \cdot e^{-\lambda x} \end{cases}$ $\lambda = \frac{1}{2} \begin{cases} x \cdot e^{-\lambda x} \\ x \cdot e^{-\lambda x} \end{cases}$ $= \frac{\lambda}{\lambda} \left(-\frac{1}{\lambda^2} + \frac{1}{\lambda^2} \right) = 0$ $\Rightarrow \int x e^{\lambda x} dx = \frac{x}{\lambda} e^{\lambda x} = \frac{e^{\lambda x}}{\lambda} dx = \frac{e^{\lambda x}}{\lambda^2} = \frac{1}{\lambda^2}$ Sx. e = $-\lambda$ e | $-\lambda$ $\int x^{2}e^{\lambda x} = \frac{x^{2}}{n \cdot e} = \frac{1}{100} - 2 \int xe^{\frac{nx}{n}} dx = \frac{2}{13}$

 $\int_{X^2}^{\infty} x^2 e^{-\lambda x} dx = -\lambda e^{-\lambda x} \Big|_{0}^{\infty} + \frac{2}{\lambda} \cdot \int_{X}^{\infty} x e^{-\lambda x} dx = \frac{2}{\lambda^3}$ $\int_{0}^{\infty} x^{2}e^{-2x} dx = \frac{\chi^{2}}{2}e^{-2x} \Big|_{0}^{\infty} + \frac{2}{2}e^{-2x} \Big|_{0}^{\infty$ Traspik gu Fy(x)