$$\chi(t) = e^{-2t}$$
, $\mu(-t+3)$

$$\int_{-\infty}^{\infty} \int_{-\infty}^{-2t} u(-t+3) \cdot e^{-3t} dt$$

$$= \int_{-\infty}^{3} e^{-t(x+5)} dt = \frac{-1}{(x+5)} e^{-t(x+5)} |_{-\infty}^{3}$$

Para convergência (Roc):

$$e^{-3(5+2)}$$