$$f_{x_1} + f_{x_2}(t) = \int_{-\infty}^{\infty} f_{x_1}(u) f_{x_2}(t-u) du$$

Ten 
$$t \in (0,1)$$
: w. un unouswaring  $\int_{x_{\ell}} (t-u) e$  nemy neba canco  $\ell$  unoughoung  $(0,1)$ , uso
$$T = \int_{0}^{t} \int_{x_{\ell}} |u| \int_{x_{\ell}} |x_{\ell}(t-u)| du = \int_{0}^{t} \int_{x_{\ell}} |u| = t$$

Jan. 
$$t \in [1;2]$$

$$t-4 = 2 = 74 > t-1$$

$$I = \int_{-1}^{1} 2 du = 1 - (t-1) = 2 - t$$

$$t-1$$

Sigg 
$$X_1, X_2 - X_1$$
 iich  $X_1 \times X_2 \times X_3 \times X_4 \times X_4 \times X_4 \times X_5 \times X$ 

\* 
$$X_1, X_2 \sim \text{Exp}(\lambda)$$
  $X_1 \text{ if } X_2$ 

Pacaba  $F_2(t) = \left(\int_{\lambda}^{t} e^{-\lambda x} dx\right)^2 = \left(1 - e^{-\lambda t}\right)^2$ 
 $\int_{z}^{z} (t) = 2(1 - e^{-\lambda t}) e^{-\lambda t} \lambda \quad 3a \quad t \neq 0$ 

Here  $Y = \text{Man}(X_1 X_2 - X_2)$