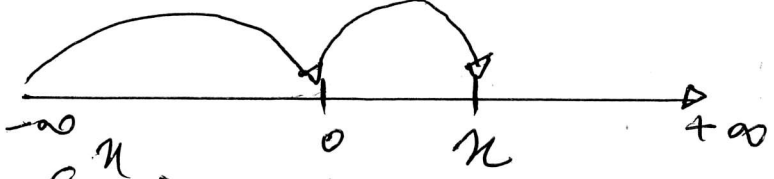
• si $x > 0$



$$F(x) = \int_{-\infty}^{0} f(t)\,dt + \int_{0}^{x} f(t)\,dt.$$

$$F(x) = \int_{0}^{x} e^{-t}\,dt = -e^{-t}\Big|_{0}^{x} = -e^{-x} + 1.$$

d'où

$$F(x) = \begin{cases} 0 & \text{si } x \leq 0. \\ 1 - e^{-x} & \text{si } x > 0. \end{cases}$$