

$$\frac{d x(t)}{dt} \Rightarrow j 2 \pi f X(f)$$

$$\int x(t) dt \Rightarrow \frac{X(f)}{j 2 \pi f}$$

TEOREMA PRODOTTO

$$x(t) y(t) \Rightarrow X(f) \otimes Y(f)$$

dimo

$$\int_{-b}^b x(t) y(t) e^{-j 2 \pi f t} dt$$

$$= \int_{-b}^b x(t) \underbrace{\left(\int_{-b}^b y(v) e^{j 2 \pi v t} dv \right)}_{y(t)} dt$$

$$e^{-j 2 \pi f t} dt$$