

代收变变

Linear transform.

transform.

$$\int L(J+g) = L(H) + L(g)$$

$$L(f(H)) = [-Cs] \quad L(cf) = C \cdot L(f)$$

$$f(H) \quad \text{ans} \quad F(s)$$

$$\int_{0}^{\infty} e^{-st} dt = \lim_{R \to \infty} \int_{0}^{R} e^{-st} dt = \left[\frac{e^{-st}}{-s}\right]_{0}^{R}$$

$$= \frac{1}{2} e^{-sR} - 1$$

$$\frac{7}{5} e^{-SR} - 1$$

$$R > 20 - 5$$

$$2 \le \frac{1}{5} = \frac{1}{$$

What is it it is is negotive) 没有意义 meaningless.

exponential-shift

e (246)/

$$\frac{s}{s^{2}+a^{2}} \cdot s > a$$

$$\frac{s}{s^{2}+a^{2}} \cdot s > a$$

$$\frac{a}{s^{2}+a^{2}} \cdot s > a$$

$$\frac{1}{s(s+2)} \cdot \frac{1}{s(s)} \cdot \frac{1}{s(s)} \cdot \frac{1}{s(s+2)} \cdot$$

$$\begin{cases}
\frac{1}{s} \lim_{n \to \infty} \frac{t^n}{e^{st}} \xrightarrow{\text{ind}} \frac{t^n}{e^{st}}
\end{cases}$$

$$\oint \int_{0}^{\infty} t^{n} e^{-st} dt = t^{n} \frac{e^{-st}}{-s} \int_{0}^{\infty} - \int_{0}^{\infty} n t^{n-1} \cdot \frac{e^{-st}}{-s} dt$$
Ditt int

$$= 0 - 0 + \frac{n}{5} \int_{0}^{\infty} t^{n-1} e^{-st} dt$$

$$= \frac{n}{5} \int_{0}^{\infty} t^{n-1} e^{-st} dt$$

$$\frac{1}{2} \left(\frac{1}{2} \right) = \frac{n}{5} \left(\frac{1}{5} \right) = \frac{n}{5} \cdot \frac{n-1}{5} \left(\frac{1}{5} \right) = \frac{n!}{5^{n+1}}$$

$$\frac{1}{5} \cdot \frac{1}{5} \cdot$$