a)
$$\int_{0}^{\infty} \cot e^{-(\sigma + j\omega)t} dt$$

$$\int_{0}^{\infty} |e^{-bt} e^{-(\sigma + j\omega)t}| dt < \infty \rightarrow \int_{0}^{\infty} e^{-bt} e^{-bt} dt = \int_{0}^{\infty} e^{-(\sigma + b)t} dt = \frac{e^{(\sigma + b)t}}{e^{-(\sigma + b)t}} |e^{-bt}| dt < \infty \rightarrow \int_{0}^{\infty} e^{-bt} e^{-bt} dt = \int_{0}^{\infty} e^{-(\sigma + b)t} dt = \int_{0}^{\infty} e^{-bt} e^{-bt} dt = \int_{0}^{\infty} e^{-b$$

6(t) -re-tret

$$9(4) \cdot be^{t} + abe^{t} \xrightarrow{L} 6(5) \cdot \frac{b}{5+1} + \frac{ab}{5-1} = \frac{b \cdot 5 - b + ab \cdot 5 + ab}{5^{t} - 1} \Rightarrow \frac{-a}{5}$$

$$(s-k,)(s-k)(s-k)(s-k)$$

$$\frac{M}{(s-k,)(s-k)(s-k)} = \frac{M}{(s-k)^{\frac{1}{2}}} \frac{M}{(s-k)^{\frac{1$$

$$\frac{(s'-s-i)}{(s'-s-i)} = \frac{m}{(s'-s-i)}$$

$$\int_{-\infty}^{\infty} x(t)dt = t \rightarrow x(0) = \int_{-\infty}^{\infty} x(t)e^{-ist} dt \Big|_{s=0} = t = \frac{m}{(-s\cos\frac{\pi}{k})} \times \left(\frac{s}{\sqrt{k}}\right)$$

$$\int_{-\infty}^{\infty} x(t)dt = t \rightarrow x(0) = \int_{-\infty}^{\infty} x(t)e^{-ist} dt \Big|_{s=0} = t = \frac{m}{k} \rightarrow \frac{1}{k}$$

$$\times (s'-s-i) = \int_{-\infty}^{\infty} x(t)e^{-ist} dt \Big|_{s=0} = t = \frac{m}{k} \rightarrow \frac{1}{k}$$

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$$\frac{d^{r}y(r)}{dx^{r}} + (\alpha + 1) \frac{d^{r}y(t)}{dt^{r}} + \alpha(\alpha + 1) \frac{dy(t)}{dt} + \alpha^{r}y(t) = n(t)$$
has it

$$X(S) = X'(S') \longrightarrow S_{Y} = -1 - Y_{j} \longrightarrow \text{im} \text{ private}$$

$$\text{composition the case with the constant of the con$$