



$$\mathcal{L}\{\delta(t - t_0)\} = \int_0^{\infty} e^{-st} \delta(t - t_0) dt = e^{-st_0}$$

$$\delta(t - t_0) \Leftrightarrow e^{-st_0}$$

$$\delta(t) \Leftrightarrow 1$$