

$$C(s) = \frac{-e^{-5}}{s+5} + \frac{1}{s}$$

$$= \mathcal{L}^{-1}[C(s)] = -e^{-5} \mathcal{L}^{-1}\left[\frac{1}{s+5}\right] + \mathcal{L}^{-1}\left[\frac{1}{s}\right]$$

$$c(t) = -148 e^{-5t} + 1$$