$$x_3(t)$$
: $T_0 = 40 \rightarrow W_0 = 2\pi = T$
 $x_3(t) = \sum_{n=-\infty}^{\infty} 0_n e^{jn\pi} t$

$$0n = \frac{10}{40} \int_{0}^{5} e^{-\int \frac{1}{20}t} dt = \frac{1}{4} \int_{0}^{5} e^{-\int \frac{1}{20}t} dt$$

$$= \left[\frac{1}{4} \left(\frac{-20}{50\pi} \right) e^{-\frac{10\pi}{20} t} \right]^{\frac{5}{5}} = \left[\frac{-5}{5} e^{-\frac{10\pi}{20} t} \right]^{\frac{5}{5}} = \left[\frac{-5}{50\pi} e^{-\frac{10\pi}{20} t} \right]^{\frac{5}{5}} = \left[\frac{-5}$$

$$= -5 e^{-\int \frac{\pi}{4}} + 5 e^{\int \frac{\pi}{4}} = 10 \left[e^{\int \frac{\pi}{4}} - e^{\int \frac{\pi}{4}} \right]$$

$$\int \frac{\pi}{4} = 10 \left[e^{\int \frac{\pi}{4}} - e^{\int \frac{\pi}{4}} \right]$$