Example 3-1

Q:
$$\chi(t) = e^{-t}$$

$$\chi(s) = ?$$

$$\chi(s) = ?$$

$$\chi(s) = X(s) = ?$$

Solution Table.

4
$$\chi(s) = \frac{1}{s+1}$$
 $\chi(t) = \chi(k\tau) = e^{-k\tau}$
 $\chi^*(s) = \chi(r) = \frac{1}{1-e^{-r}r^{4}}$
 $\chi^*(s) = \frac{1}{1-e^{-r}r^{4}}$