Homework assignments for chapter four:

Discussion problem assignment:

第一题:

For an aperiodic signal  $x_0(t)=e^{-t}u(t)$ , prove that  $x(t)=\sum_{n=-\infty}^{+\infty}x_0(t-nT)$  is a periodic signal with fundamental period T. Let  $x_0(t) \leftrightarrow X_0(j\omega)$ ,  $x(t) \leftrightarrow a_k$ , confirm that  $a_k=\frac{1}{T}X_0(jk\omega_0)$ .

第二题:

Question: compute 
$$\int_{-\infty}^{0} \frac{\sin t}{t} dt = ?$$