Discussion problem assignment:

2. For a periodic signal $x(t) \xleftrightarrow{\text{FS}} a_k$, **find the FS for the following signal:** $y(t) = x^*(-t-1)$

问题一：

第二题：

Prove the following two FS properties:

multiplication property $x(t)y(t) \xleftrightarrow{\text{FS}} \sum_{l=-\infty}^{+\infty} a_l b_{k-l}$

periodic convolution property $\int_T x(\tau)y(t-\tau)d\tau \xleftrightarrow{\text{FS}} T a_k b_k$