

Discussion problem assignment:

第一题:

1. For the signal $x(t) = \delta(t) + \delta(t - 1)$, find its Laplace transform, determine the poles and zeros plus sketching the pole-zero plot.

第二题:

2. For the following Laplace transform $X(s)$ with signal $x(t)$ to be absolutely integrable, determine the signal $x(t)$ from inverse Laplace transform. Find the Fourier transform of the signal and confirm the inverse Fourier transform is the same as from LT.

$$X(s) = \frac{-4}{s^2 - 4}$$