第一题:

- 1. For an LTI system with system function $H(s) = \frac{(s+2)}{(s+1)(s+3)}$ and another system $g(t) = e^{2t}h(t)$
- It is known that the system g(t) is stable. For the system H(s), determine h(t) and whether the system is causal or stable.

第二题:

- 2. Consider a causal LTI system with H(s). Its pole-zero plot is given in the figure and $\lim_{t\to t} h(t) = 2$
- (a) Determine the system function H(s).
- (b) Determine the unit impulse response h(t). Is the system stable?

