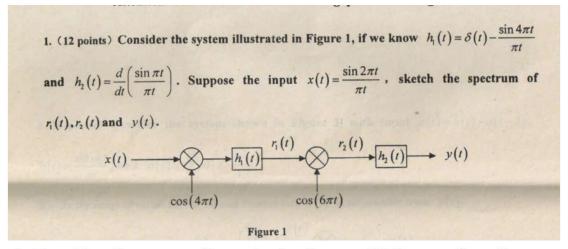
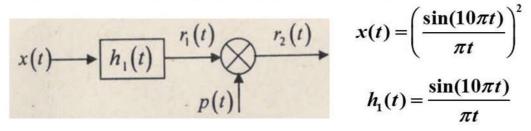
Homework assignments for chapter 6, 7, 8: 6.5(a), 6.23, 6.27(a) (b) (c) (d), 7.1, 7.2, 7.3(a) (b) (c) (d), 7.6, 8.1, 8.3, 8.22

Discussion problem assignment:

第一题:



1. Consider the system shown in the figure with input x(t) and impulse train sampling signal p(t) with T = 0.1, plus



Determine and sketch the spectrum of signal $r_1(t)$, $r_2(t)$

2. For the following two bandlimited signals,

$$X_1(j\omega)=0$$
, for $|\omega|>200\pi$ $X_2(j\omega)=0$, for $|\omega|>500\pi$
Let $y(t)=x_1(3t+4)\times x_2(t/2-2)$ be the signal to be sampled, find the maximum sampling period T for $y(t)$ to be recoverable from samples.