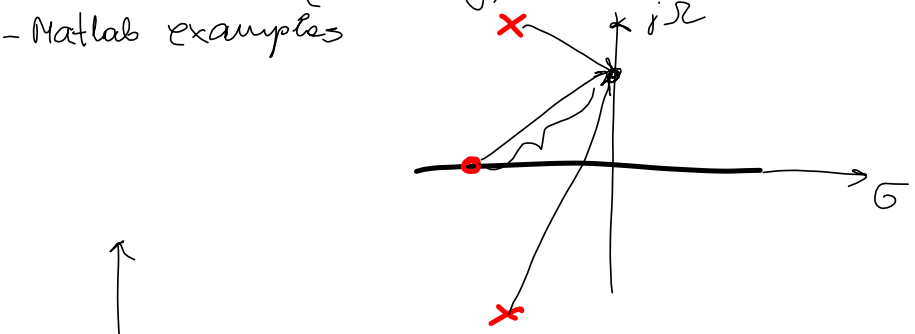
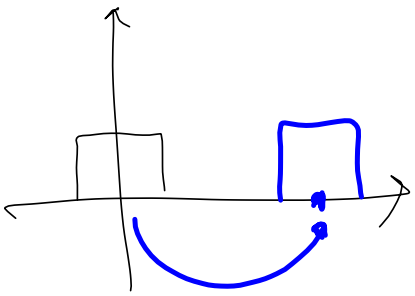
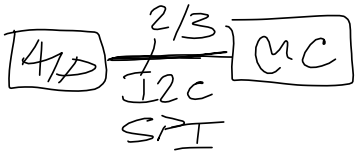
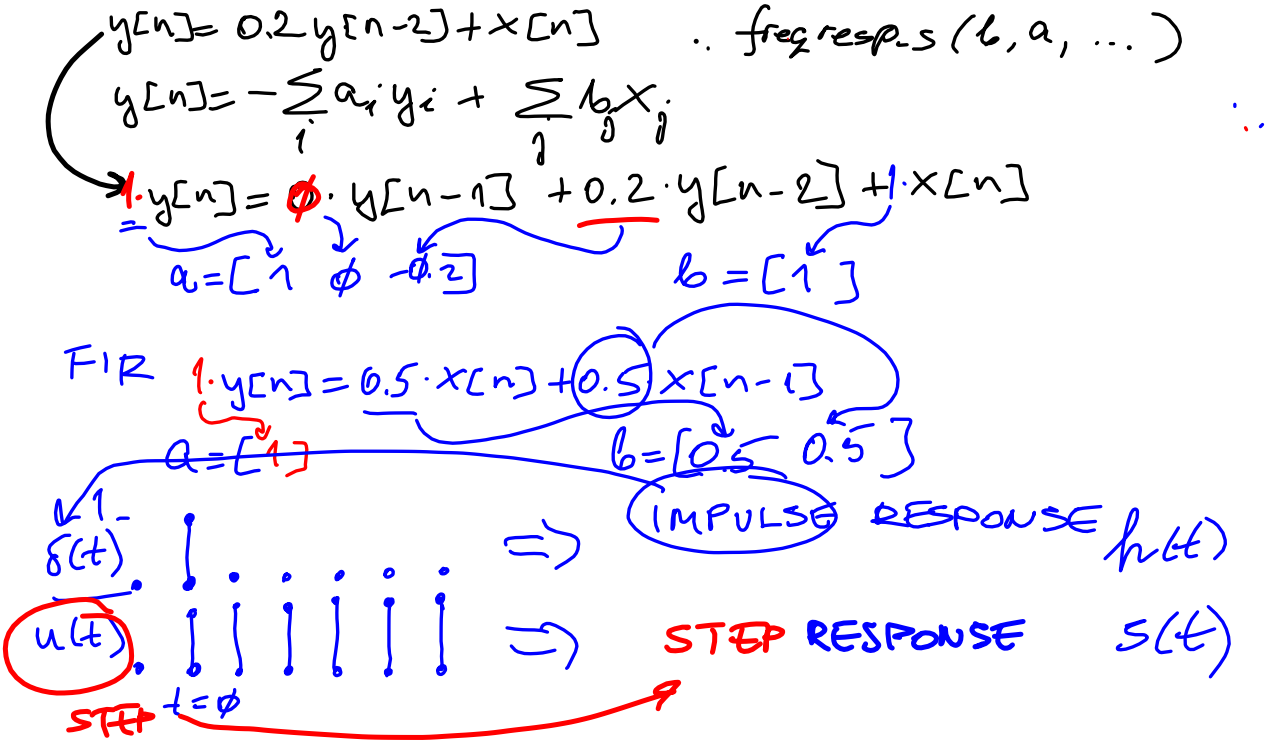
CPE381 #24

Wed: Phase II (Final Project due)
HW #5 (Monday, April 20)
- Matlab examples



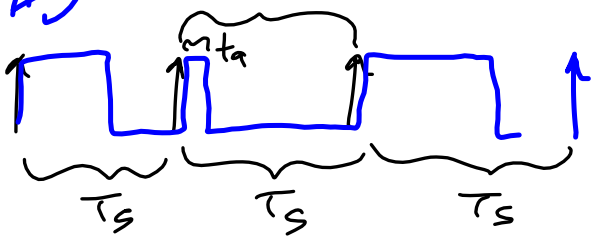


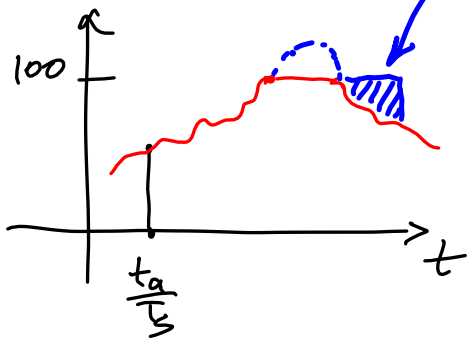



y[n]= 0.2 y[n-2]+x[n]
.. freqresp_s(b, a, ...)
y[n]= -Σ a_i y_i + Σ b_j x_j
1·y[n] = 0·y[n-1] + 0.2·y[n-2] + 1·x[n]
a=[1 0 -0.2]
b=[1]
FIR
1·y[n] = 0.5·x[n] + 0.5·x[n-1]
a=[1]
b=[0.5 0.5]
IMPULSE RESPONSE h(t)
δ(t)
u(t)
STEP RESPONSE s(t)
STEP
t=0

$$\sum_{k=0}^{N} k = \frac{N(N+1)}{2} \Rightarrow \sum_{k=0}^{5} k = \frac{5 \cdot 6}{2} = 15$$

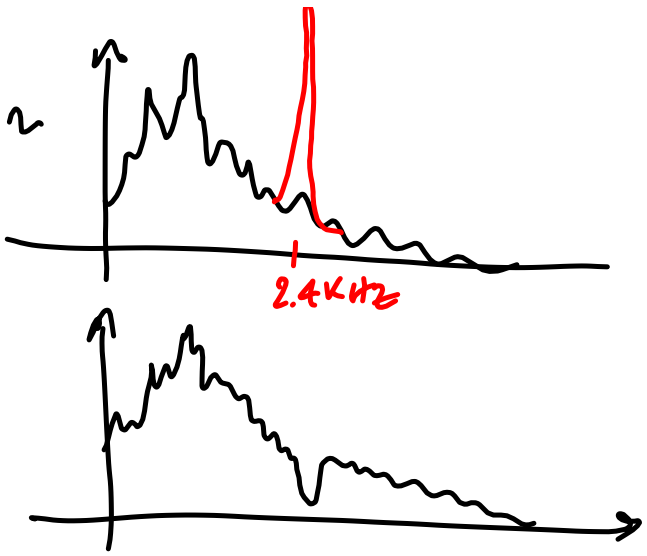
HW #5





$$\sin(\omega t + \varphi)\Big|_{t = nT_s = n\frac{1}{F_s}}$$

REAL-TIME OPERATION



Apr 8-3:25 PM

Apr 8-3:54 PM