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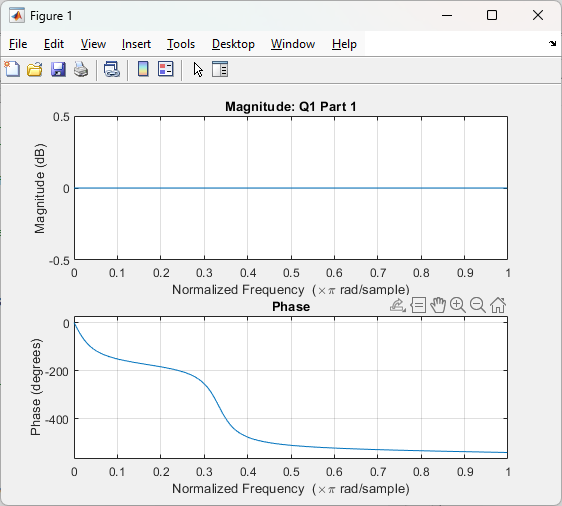

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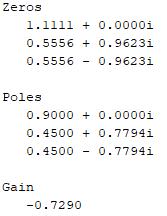

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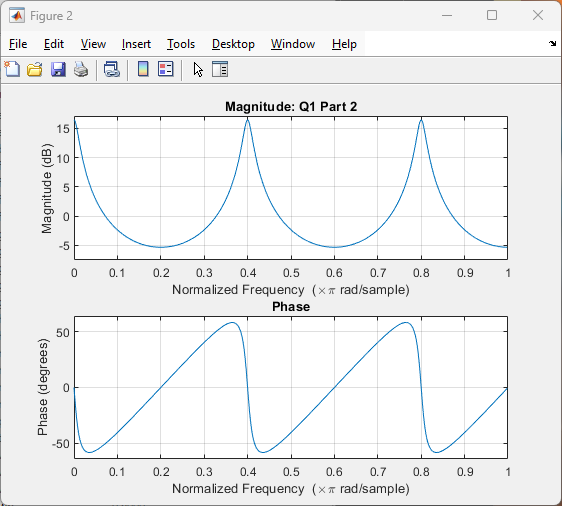

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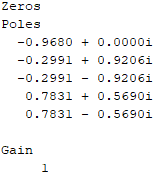

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Matlab Part 1

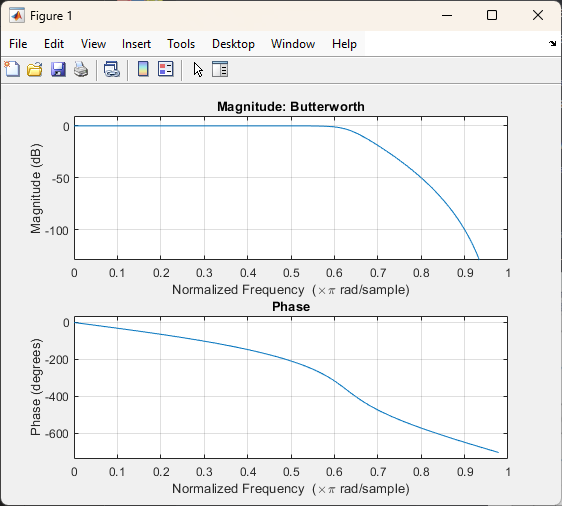


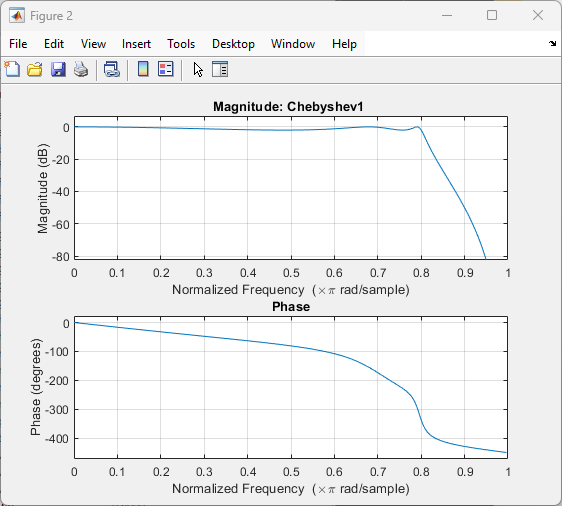


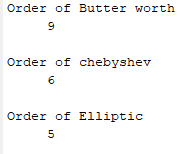
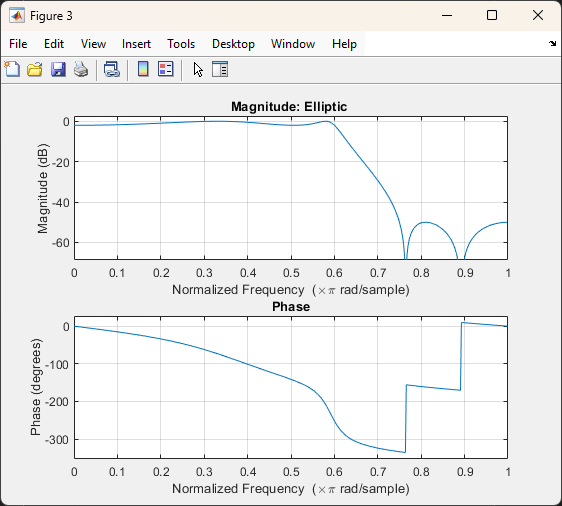




Part 2 of Matlab



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One can see that the elliptic filter does the best. It has the least order of coefficients and it also has the steepest roll off from the cutoff frequency. It has the worst phase shift of the 3 filters, however. The Chebyshev filter also has a steeper roll off but it is after the cutoff frequency by about .2pi rads. Its phase shift preforms the best out of the 3 filters. Lastly the Butterworth filter performs the worst. It has the most gradual roll off after the cut off frequency and it doesn’t perform that great on the phase shift. It does have the most linear phase shift of the 3 filters however. Lastly the Butterworth filter has the highest order as well.

Matlab script for part 1 of the homework:

close all;

b =[-0.729 1.62 -1.8 1];

a =[1 -1.8 1.62 -0.729];

[z, p, g] = tf2zp(b, a);

disp("Zeros"); disp(z);

disp("Poles"); disp(p);

disp("Gain"); disp(g);

freqz(b, a);

title("Magnitude: Q1 Part 1")

figure;

b =[1];

a =[1 0 0 0 0 -0.85];

[z, p, g] = tf2zp(b, a);

disp("Zeros"); disp(z);

disp("Poles"); disp(p);

disp("Gain"); disp(g);

freqz(b, a);

title("Magnitude: Q1 Part 2")

matlab script for part 2 of the homework:

close all;

fs = 10000;

fp = 3000;

fst = 4000;

wp = (2)\*(fp/fs);

wst = (2)\*(fst/fs);

gp\_db = 2;

gst\_db = 50;

gp = 10^(gp\_db/10);

gst = 10^(gst\_db/10);

n = 256;

%%

[m, wn] = buttord(wp, wst, gp\_db, gst\_db);

[b, a] = butter(m, wn);

freqz(b, a);

title("Magnitude: Butterworth");

disp("Order of Butter worth"); disp(max(length(b), length(a)));

%%

figure

[m, wn] = cheb2ord(wp, wst, gp\_db, gst\_db);

[b, a] = cheby1(m, gp\_db, wn);

freqz(b, a);

title("Magnitude: Chebyshev1 ");

disp("Order of chebyshev"); disp(max(length(b), length(a)));

%%

figure

[m, wn] = ellipord(wp, wst, gp\_db, gst\_db);

[b, a] = ellip(m, gp\_db, gst\_db, wn);

freqz(b, a);

title("Magnitude: Elliptic ");

disp("Order of Elliptic"); disp(max(length(b), length(a)));