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```
close all; clear all; clc; clf;

Q1 = 1;
Q2 = 10;
Q3 = 100;

w0 = 1;

gamma1 = w0/Q1;
gamma2 = w0/Q2;
gamma3 = w0/Q3;
F0divm = 1;
w = linspace(0,2,5000);

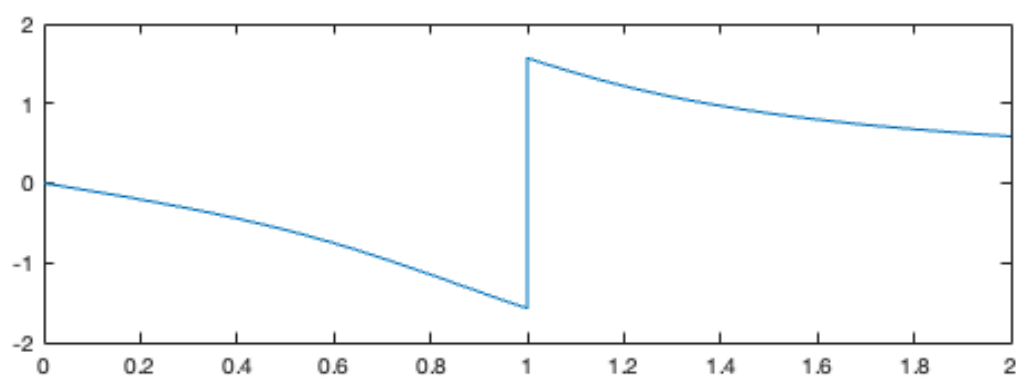
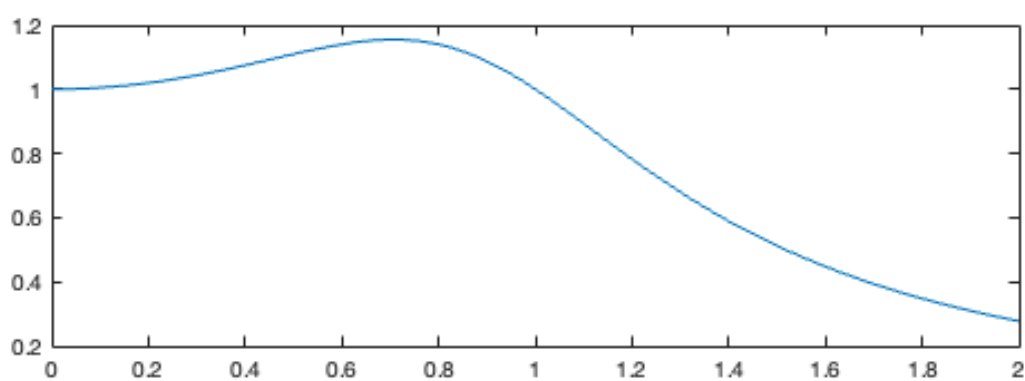
A1 = 1./(((w0^2-w.^2).^2+(w*gamma1).^2).^(1/2));
A2 = 1./(((w0^2-w.^2).^2+(w*gamma2).^2).^(1/2));
A3 = 1./(((w0^2-w.^2).^2+(w*gamma3).^2).^(1/2));

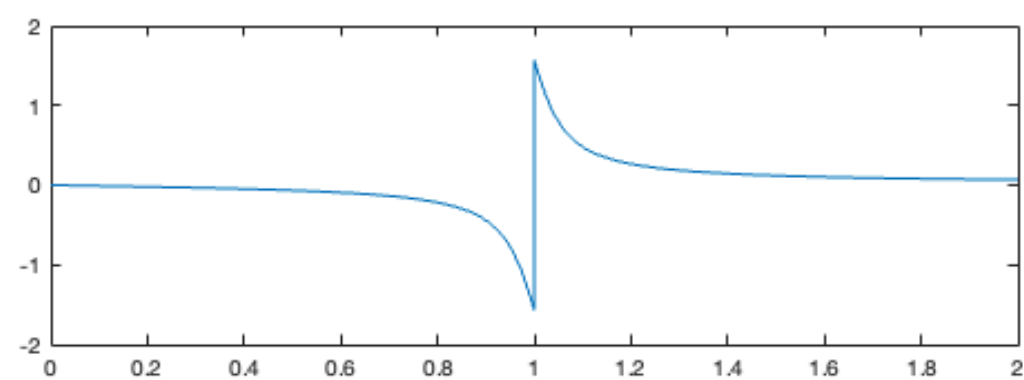
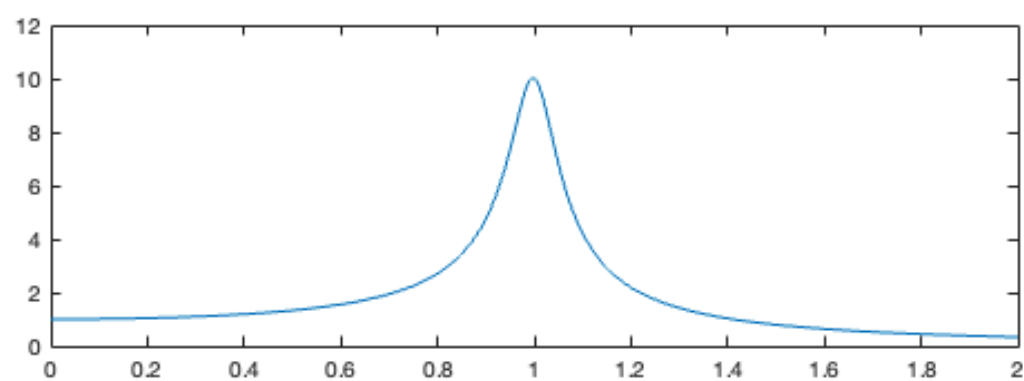
phi1 = atan((-w.*gamma1)./(w0^2-w.^2));
phi2 = atan((-w.*gamma2)./(w0^2-w.^2));
phi3 = atan((-w.*gamma3)./(w0^2-w.^2));

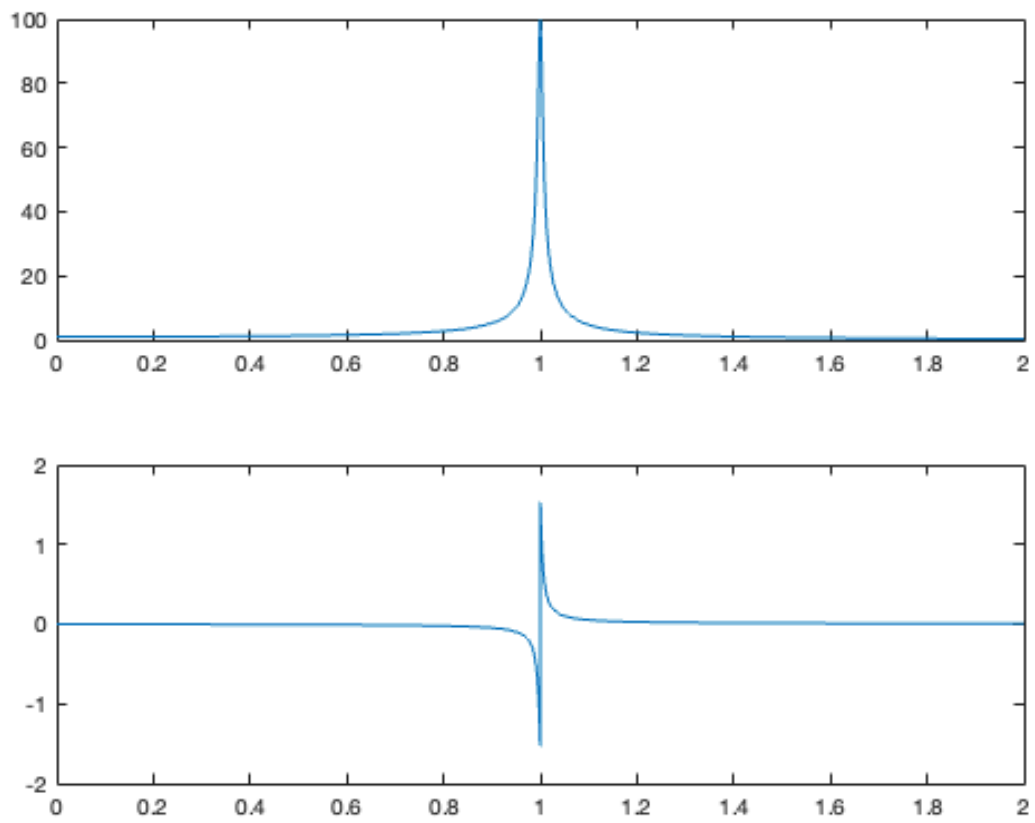
figure()
subplot(2,1,1)
plot(w,A1)
subplot(2,1,2)
plot(w,phi1)

figure()
subplot(2,1,1)
plot(w,A2)
subplot(2,1,2)
plot(w,phi2)

figure()
subplot(2,1,1)
plot(w,A3)
subplot(2,1,2)
plot(w,phi3)
```







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