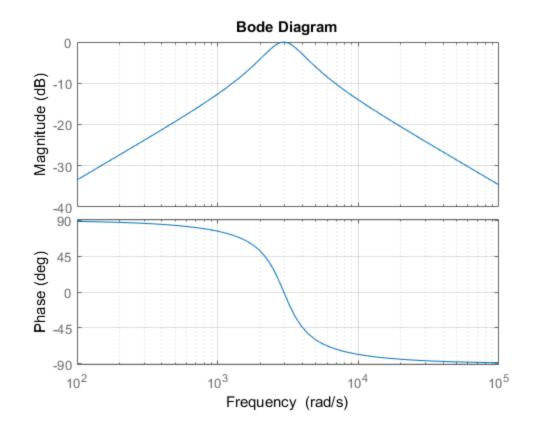
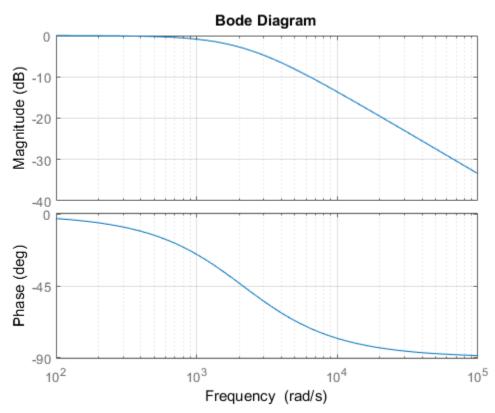
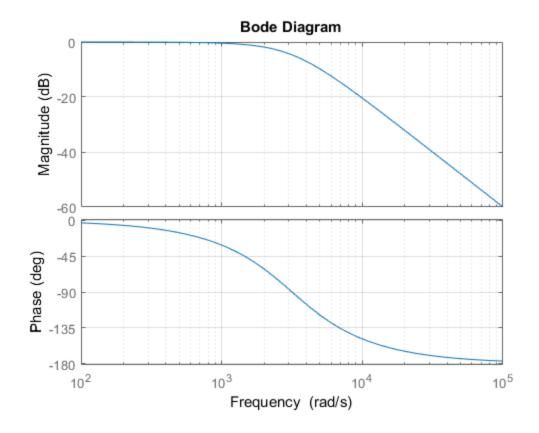
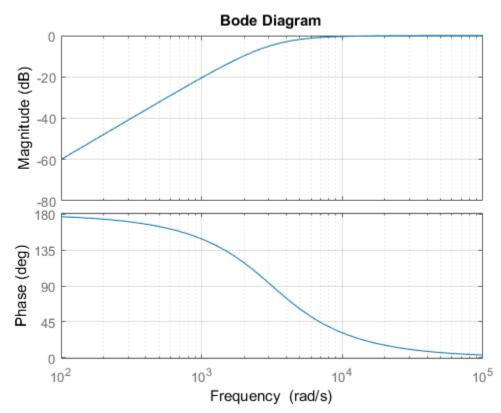
## Richie Ngo MIE 402 27413591 Pre-Lab 6

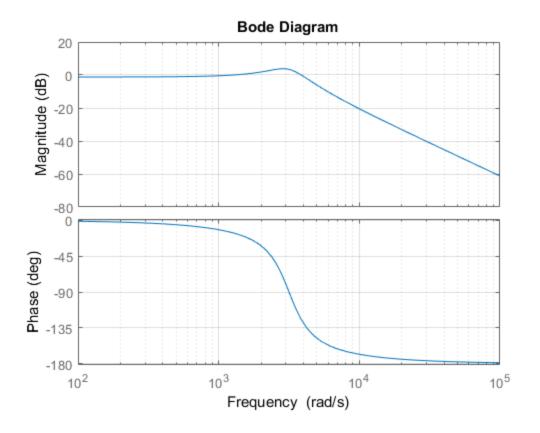
```
% Initializes circuit values
R = 470; % resistance, ohms
L = 100*10^-3; % inductance, henrys
R1 = 70; % inductor resistance, ohms
Req = R + Rl; % equivalent resistance in series, ohms
C = 1*10^-6; % capacitance, farads
% 1.
figure(1)
G1 = tf([L 0], [L*C*Req L R]);
bode(G1)
grid
% 2.
figure(2)
G2 = tf(1, [R*C 1]);
bode(G2)
grid
% 3.
figure(3)
G3 = tf(1, [L*C Req*C 1]);
bode (G3)
grid
% 4.
figure(4)
G4 = tf([L \ 0 \ 0], [L \ Req \ 1/C]);
bode (G4)
grid
% 5.
figure(5)
G5 = tf(R, [L*C*Req L Req]);
bode (G5)
grid
% 6.
figure(6)
G6 = tf(L, [Req L]);
bode (G6)
grid
% 7.
figure(7)
G7 = tf([R*C 0], [R*C 1]);
bode(G7)
grid
```

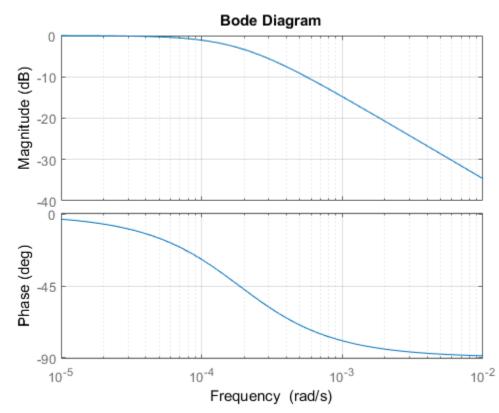


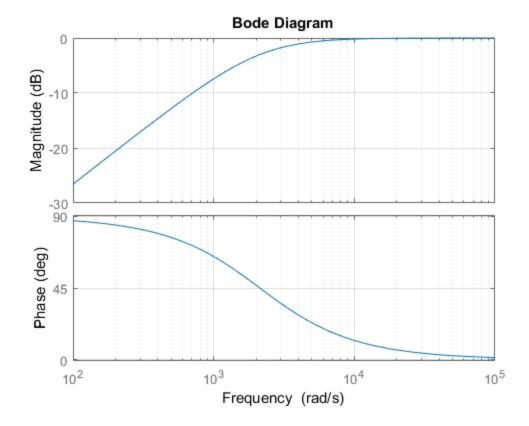












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