function fp = Homework1Part3(R1, C1, R2, C2)

% Vi -----R1---C1 ------ Vo \*No prefixes on input units\*

% |

% C2

% |

% R2

% \_

C = (C1\*C2)/(C1+C2); R = R1 + R2;

tz = R2\*C2; tp = R\*C; K = C/C2; f\_start = 10; f\_stop = 100000;

step = (f\_stop - f\_start)/1024; freq = f\_start:step:f\_stop;

Ts = K\*(1+(j.\*2.\*pi.\*freq).\*tz)./(1+(j.\*2.\*pi.\*freq).\*tp);

Ms = 20\*log(abs(Ts));

Ps = (180/pi)\*angle(Ts);

semilogx(freq,Ms),grid

figure

semilogx(freq,Ps),grid

%figure

%H = tf([0 K\*R2\*C2 K],[0 R\*C 1]);

%bode(H)

End

>> Homework1Part3(43000,0.0000001,3000,0.000000001)

