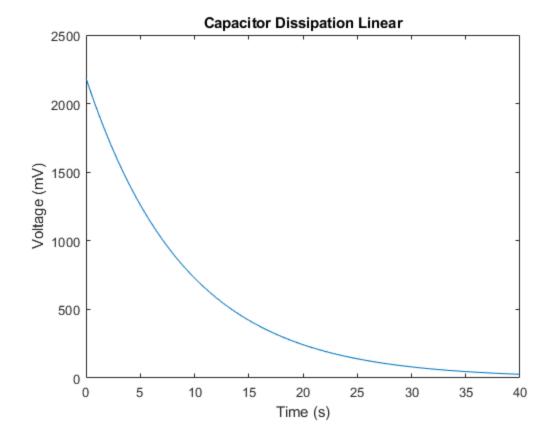
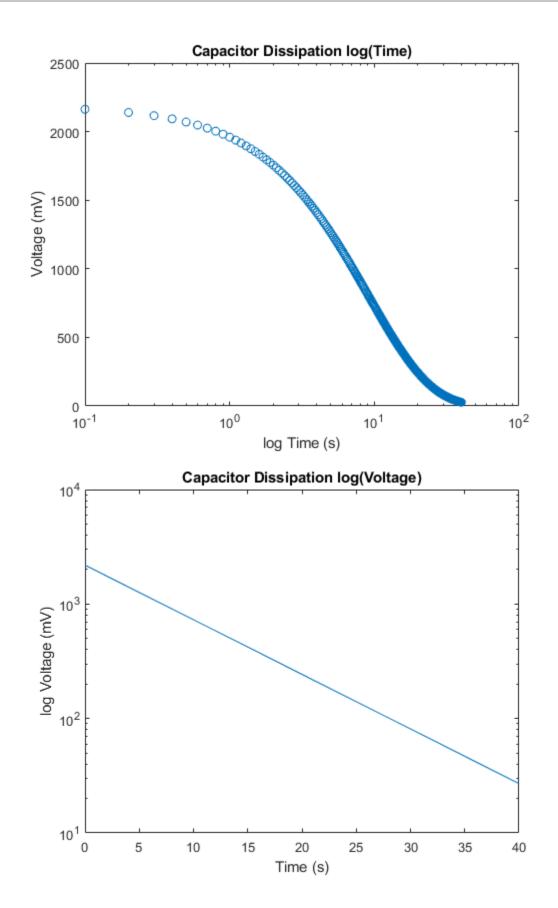
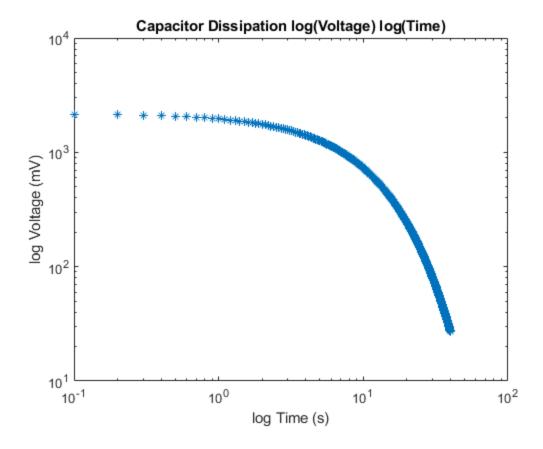
```
8***********
%* Name: Nick Shiffer Date: 9/26/17
%* Seat: 11 File: APP_A15_1_.m
%* Instructor: Dr Harper 10:20Am
&*****************
fprintf (' \ n')
fprintf ('\n* Name: Nick Shiffer Date: 9/26/17
                                                   * ' )
fprintf ('\n* Seat: 11 File: APP_A15_1_.m
fprintf ('\n* Instructor: Dr. Harper 10:20AM
                                                   * ' )
fprintf ('\n********************************)
fprintf ('\n')
%Use a loop to create volatege and time
%create summation variable
V = 0;
%loop counter variable
t=0;
%loop
for t = 0:1:400
   V(t+1) = 3^{(7-t/100)};
   time(t+1)=t/10;
end
%Plot Data
figure
plot(time, V)
xlabel('Time (s)')
ylabel('Voltage (mV)')
title('Capacitor Dissipation Linear')
%Plot with semilogx
figure
semilogx(time, V, 'o')
xlabel('log Time (s)')
ylabel('Voltage (mV)')
title('Capacitor Dissipation log(Time)')
%Plot with semilogy
figure
semilogy(time, V, '-')
xlabel('Time (s)')
ylabel('log Voltage (mV)')
title('Capacitor Dissipation log(Voltage)')
%Plot with loglog
figure
loglog(time, V, '*')
xlabel('log Time (s)')
ylabel('log Voltage (mV)')
title('Capacitor Dissipation log(Voltage) log(Time)')
```







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