Name:_____ **Date:**_____

Partner:_____

Part 1) Value of your capacitor: C = _____ nF

Value of your resistor: R = _____ kΩ

Amplitude of your function generator: V_0 = _____ V

Time constant of circuit: τ = _____ ms

Part 2) Frequency of your function generator: f = _____ kHz

Period of your function generator: T = _____ ms

Part 3) Scope setting: *vertical* = _____ volts/div

Scope setting: *horizontal* = _____ ms/div

Amplitude cursors: V_{pp} = _____ V

Time cursors: time when $V = V_{pp}/e$ τ = _____ ms

Part 4) New value of capacitor: C = _____ nF

New time constant of circuit: τ = _____ ms

New frequency of your function generator: f = _____ kHz

Attach ONE sheet having both plots, professionally formatted.

Linest results: Discharging

Units →		

Part 5) New frequency of your function generator: f = _____ kHz

New time constant of circuit: τ = _____ ms

Apparent resistance: R = _____ Ω

Part 6) Test capacitance: C = _____ nF