

[Q₄-Lab-...]]

You can place the resistor box carefully aside, we will no longer need it for now. In this task we will explore the behavior of the capacitor in the AC domain and the advantages and disadvantages of our instrumentation. Follow the steps below. It will become a **bit complicated** since you will be messing with a few connecting cables:

1. Turn on your FG and set the waveform at "sine" wave, 10 V at 100 Hz frequency. We will no longer use the **Stand By** button. Plug in your PASCO voltage/current sensor to the interface. Make sure the sensor is recognized when you open Capstone.

2. From the anode (+) of your FG connect the (+) of your PASCO sensor (there is an adaptor on top of your PASCO sensor). On the (-) adaptor of your PASCO run another cable to the 100 Ω resistor. We just hooked up our **current sensor which must always be in series** with our circuit. See steps 1-2 in the video [here](#).

3. Run another cable from the other end of the 100 Ω resistor and connect in series to the 330 μF capacitor on the PASCO board. From the other end of the capacitor run a cable directly to the ground of your FG. Now we have completed the basic connectivity of a RC circuit in series. Connect the voltage probes of your PASCO sensor across the 330 μF capacitor. Now we have the voltage measurement which must **always be across the device we are measuring**. Note that in the video before I have the opposite polarity so please switch (i.e. the black in the place of red and red in the place of black). See the step-by-step instructions in the video [here](#). Now we are ready to make measurements with Capstone!

4. Drag a graph on the main screen and set the left y-axis to Voltage and add another y-axis on the right to Current. Make sure that the sampling frequency for your PASCO sensor is set at 1 kHz.

5. Hit "Record" and run the experiment for no more than 1-2 seconds and then hit Stop. You should see sinusoidal curves for both voltage across the capacitor and current for the entire circuit. With your mouse you can scale the graph so you can clearly see a couple of oscillations. See the step-by-step instructions in the video [here](#).

6. Export the Voltage, current and time data for this run and save it on your usb or Google Drive for later use. Based on this data you will answer the following questions (I suggest you do this while in class to take advantage of Capstone's interactive measurements)

Uah Physics Lab Manual

Association for Computing Machinery



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Laboratory Manual for First Year Students (Physics 10, 12, 13, 15). University of Windsor. Dept. of Physics,1954*
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