## 6.3.1: Capacitor Voltage-current Relations (35 points total)

1. Attach to this worksheet the sketches of the capacitor voltage and current for both sinusoidal and triangular inputs. (6 pts)
2. Attach to this worksheet an image of the oscilloscope window, showing the capacitor voltage and current waveforms and the measured amplitudes of the waveforms for a 1kHz sinusoidal input. (8 pts)
3. Attach to this worksheet an image of the oscilloscope window, showing the capacitor voltage and current waveforms and the measured amplitudes of the waveforms for a 2kHz sinusoidal input. (8 pts)
4. Attach to this worksheet an image of the oscilloscope window, showing the capacitor voltage and current waveforms and the measured amplitudes of the waveforms for a 100Hz triangular input. (8 pts)
5. **DEMO**: Have a teaching assistant initial this sheet, indicating that they have observed your circuit’s operation for the triangular input. (5 pts)

**TA Initials: \_\_\_\_\_\_\_**