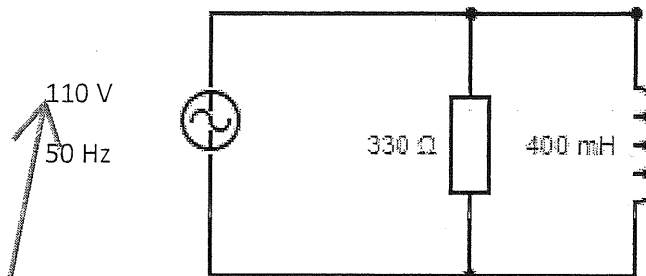


EE256 POWER AND ENERGY

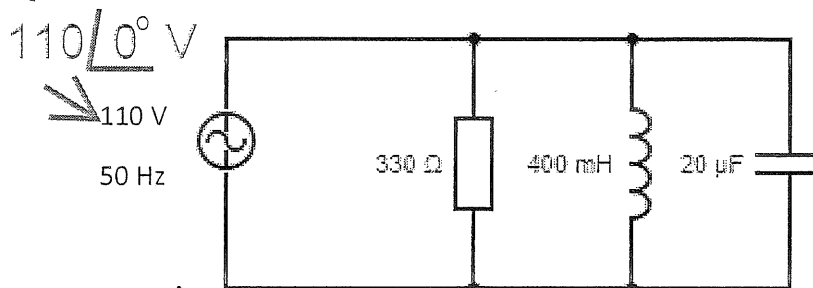
Experiment: Power Factor Improvement *

Pre-Lab Questionnaire

1. Draw the phasor diagram for the circuit given below.



2. A capacitor of magnitude $20\ \mu\text{F}$ is connected in parallel to the same circuit. Draw the new phasor diagram.



3. The circuit that you will assemble in the lab is shown in the following diagram. Can the probe's ground clip (COM) be connected as shown in the figure? Explain.

