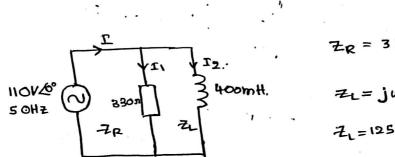
EE256 POWER AND ENERGY

Power Factor Improvement.

Pre Lab.

E[21/545

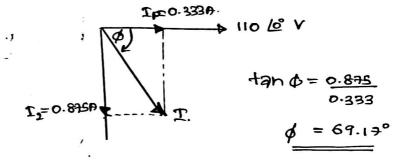
1) Draw the phasor diagram for the circuit given below.



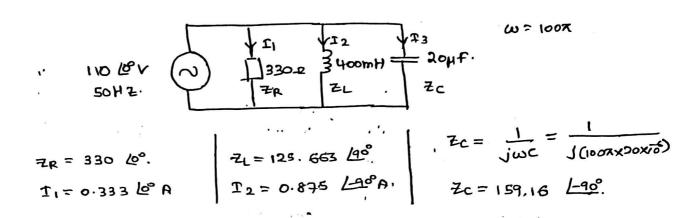
consider to,

consider ZL,

f=50HZ



2) A capacitor of magnitude 20µf is connected in parallel to the same circuit. Draw the new phasor diagram,



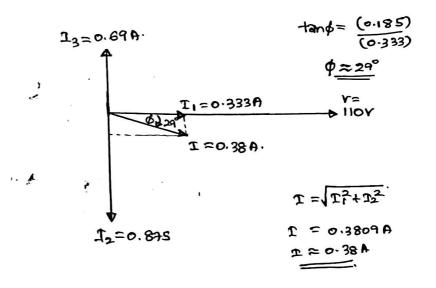
$$V = TP$$

110 $LO^0 = T_3 + C$

110 $LO^0 = T_3 + C$

110 $LO^0 = T_3 + C$

13 = 0.69 $LO^0 = C$



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

The probe ground clip can be commetted as in the figure because the secondary winding of the transformer provide isolation from man supply.