EE 3340 **Homework Problem #011**

An industrial load has been modeled as a series combination of a capacitance and a resistance as shown below. The plant engineer has proposed placing an inductance L in parallel with this load in an attempt to make the equivalent impedance appear to be purely resistive (i.e., the imaginary part is zero) at a frequency of 159.2 Hz. What value should be chosen for this inductance?

