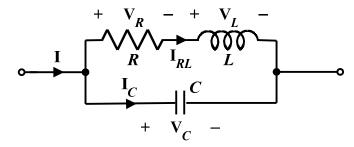
EE 3340 **Homework Problem #019**

The circuit shown below is sometimes called a "tuning circuit."



If $R = 20\Omega$, L = 5 mH, and $C = 0.5 \mu\text{F}$:

a. Determine the frequency, ω , at which its equivalent impedance, $\mathbf{Z}_{eq} = \frac{\mathbf{V}_C}{I}$, is purely resistive.

b. For the frequency determined in part a, determine that equivalent resistance.