

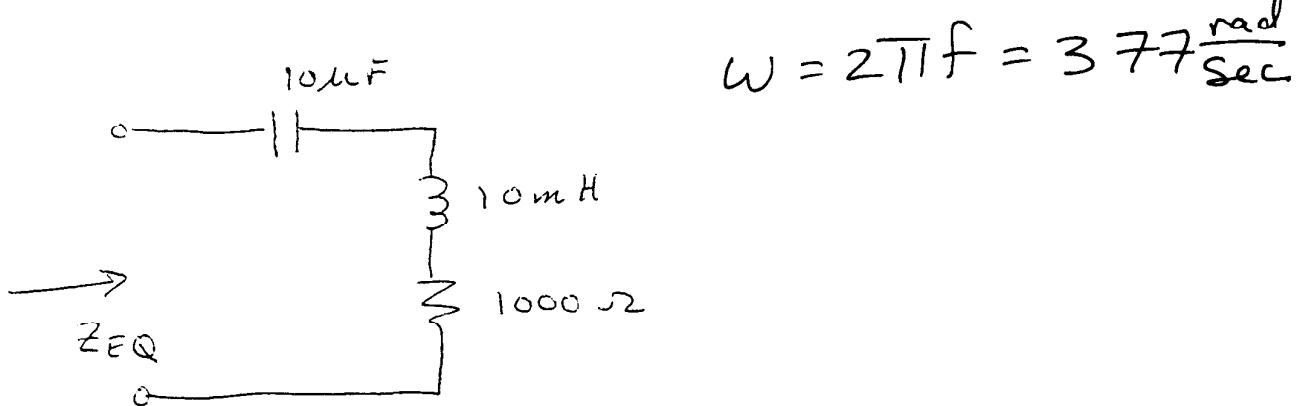
ECE 210 FOO Q7 11/09/00

NAME

Honor Code:

KEY

1. Find The equivalent impedance of the network below. Use $f=60 \text{ Hz}$.



$$Z_{EQ} = Z_C + Z_L + Z_R$$

$$= \frac{-j}{\omega C} + j\omega L + R$$

$$= \frac{-j}{(377) \cdot (10 \times 10^{-6})} + j(377)(.01) + 1000$$

$$= \underline{(1000 - 261.48j) \Omega}$$