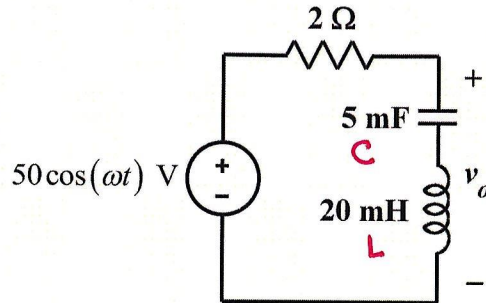


EE 3340

Homework Problem #020

What value of ω will cause the steady-state AC part of v_o to be zero?



$$\frac{1}{\omega C} = \omega L$$

$$\Rightarrow \omega = \frac{1}{\sqrt{LC}} = \frac{1}{\sqrt{20 \times 10^{-3} \times 5 \times 10^{-3}}}$$

$$= 100 \text{ rad/s}$$