

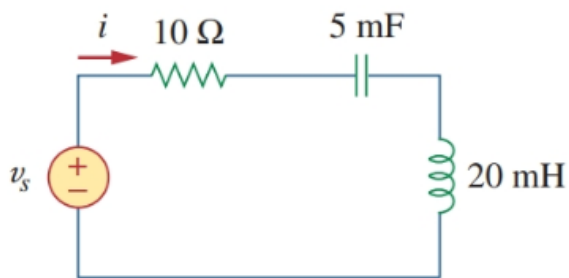
Introduction to Circuit Analysis
Homework 11 – Basic Elements and Phasors

Instructions:

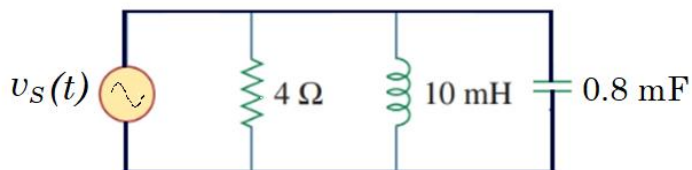
- Show all work to earn full credit
- Answers must be in engineering notation rounded off to the hundredth places.

Given the following circuit, find:

- The capacitance and inductance reactance
- The resistance, capacitance, and inductance impedance
- The voltage through the resistor, capacitor, and inductor.

Question 1)

$$v_s(t) = 50\sin(200t - 10^\circ)\ \text{V}$$

Question 2)

$$v_s(t) = 50\sin(500t)\ \text{V}$$

----- Homework Ends Here -----