

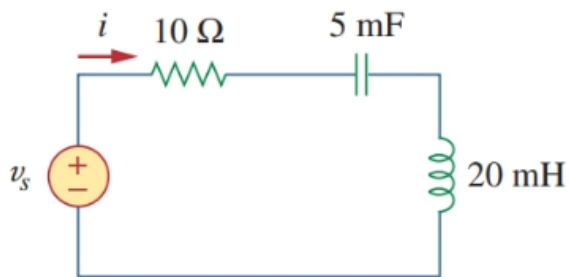
**Introduction to circuit analysis***Homework 11 – Basic Elements and Phasors***Instructions:**

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

Question 1 and 2) Given the following circuit, find:

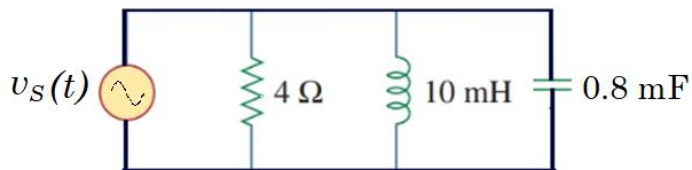
- The capacitance and inductance reactance
- The resistance, capacitance, and inductance impedance
- The voltage through the resistor, capacitor, and inductor.

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 -----