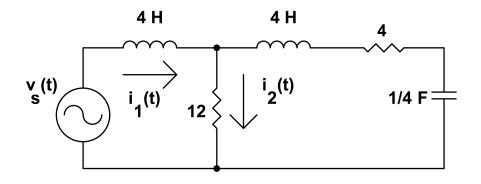
ECE 2350 CIRCUIT ANALYSIS I

Homework 11 14 April 2020

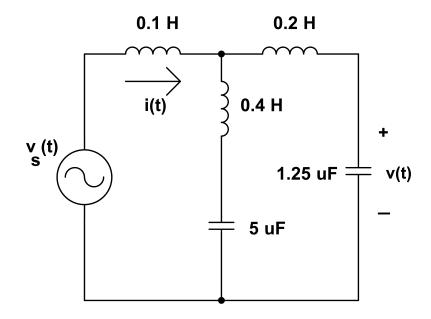
Professor Dunham Due: 21 April 2020

Review Lecture Notes.

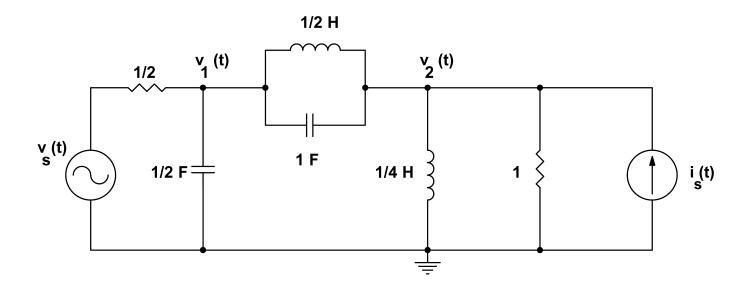
1. In the circuit shown below, find the impedance as seen by the source. Use the phasor method to find the steady-state values of $i_1(t)$ and $i_2(t)$ given that $v_s(t) = 10\cos(t)$ V.



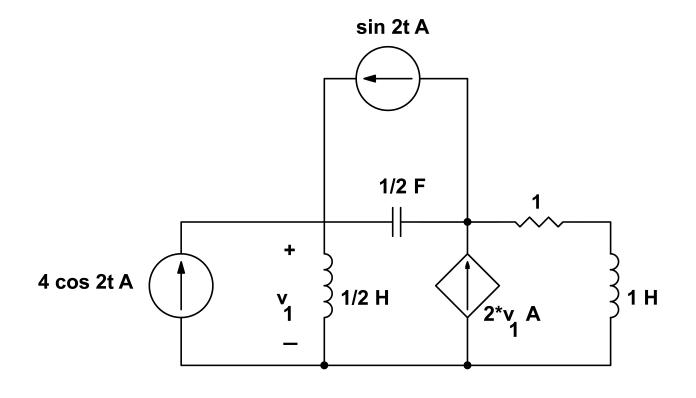
2. In the circuit shown below, find the impedance as seen by the source. Use the phasor method to find the steady-state values of v(t) and i(t) given that $v_s(t) = 4\cos(1000t)$ V.



3. In the circuit shown below, use nodal analysis to find the steady-state values of $v_1(t)$ and $v_2(t)$ given that $v_s(t) = 5\cos(2t)$ V and $i_s(t) = 5\cos(2t)$ A.



4. In the circuit shown below, use loop analysis to find the steady-state values of $v_1(t)$.



5. In the circuit shown below, find the steady-state values of $v_o(t)$ if $v_s(t) = 3\cos(2t)$ V.

