

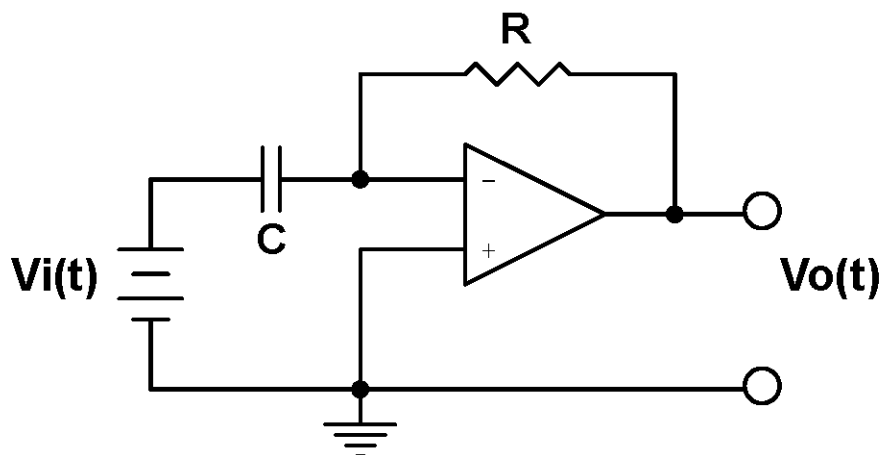
ECE 2350 CIRCUIT ANALYSIS I

Homework 8
10 March 2020

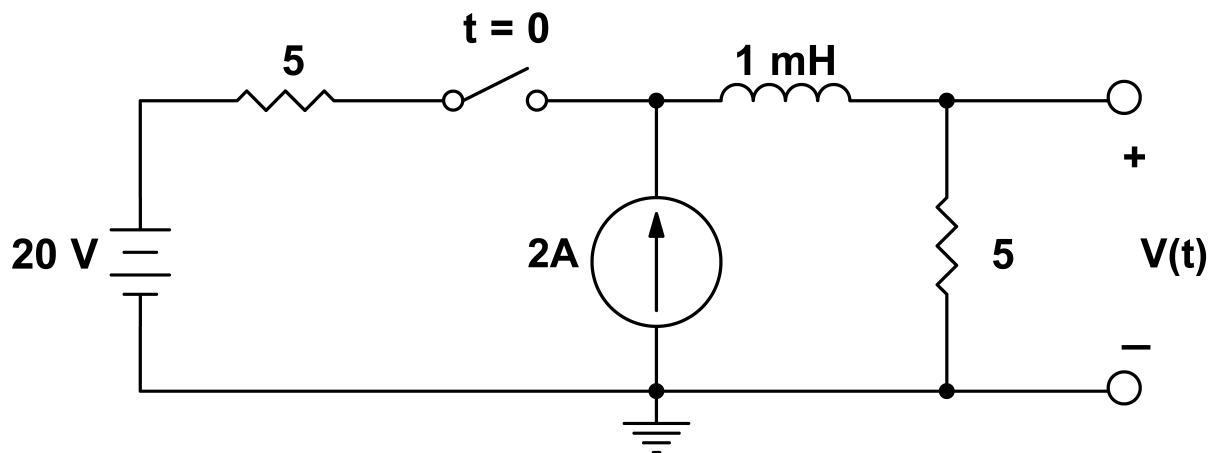
Professor Dunham
Due: 24 March 2020

Review Lecture Notes.

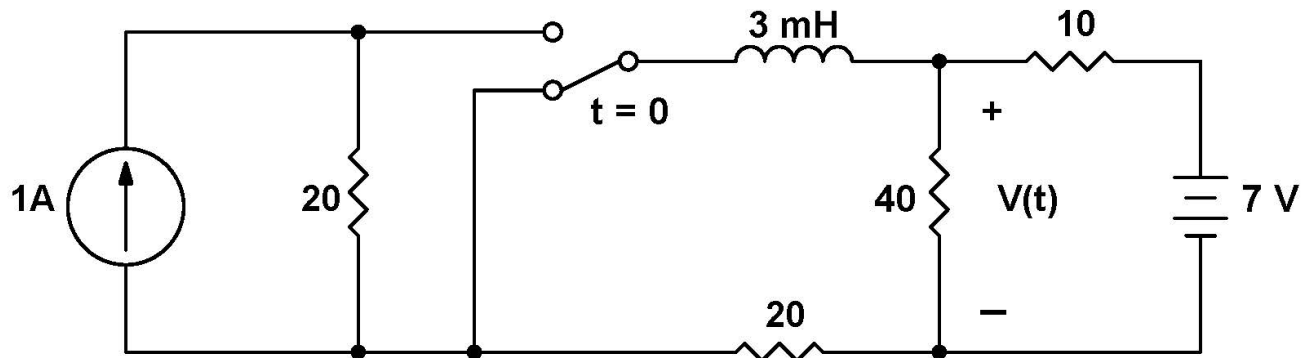
1. Express the output $v_o(t)$ in terms of the input $v_i(t)$ in the op-amp circuit below. What mathematical operation does this circuit perform?



2. Find $v(t)$ in the circuit below for $t \geq 0$. Note that the switch closes at time $t = 0$ and assume that the circuit is in the steady-state for time $t < 0$.



3. Find $v(t)$ in the circuit below for $t \geq 0$. Note that the switch moves to the other position at time $t = 0$ and assume that the circuit is in the steady-state for time $t < 0$.



4. Find $v(t)$ in the circuit below for $t \geq 0$. Note that the switch moves to the other position at time $t = 0$ and assume that the circuit is in the steady-state for time $t < 0$.

