EE223

You have a large selection of collaborative problems, homework problems, and solved problems in your text already that are at the level of difficulty of the test. When you are ready for a challenge, here are three problems at a difficulty level slightly greater than that of the test.

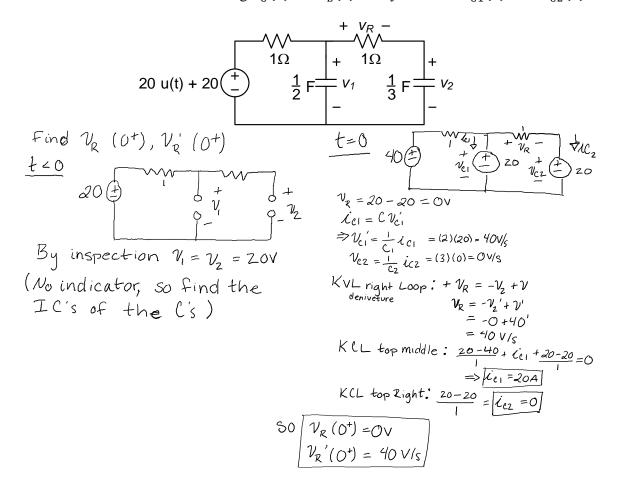
P1 Concept: Initial Conditions

Find: $v_R(0^+)$ and $v'_R(0^+)$ in the following circuit

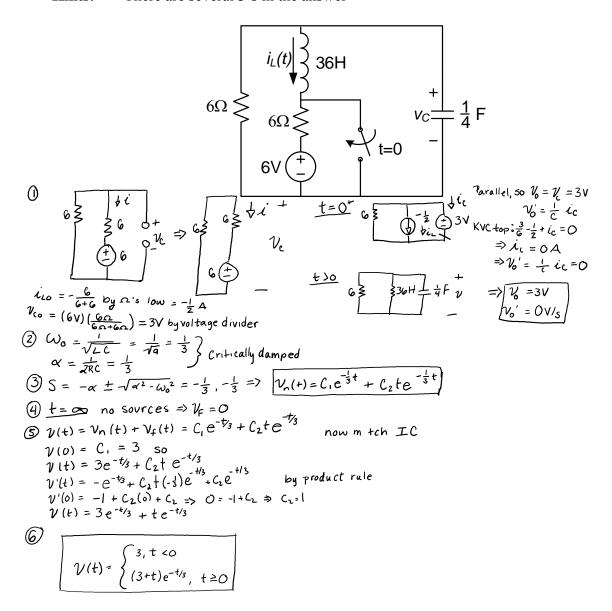
Hints:

RCC initial conditions are solved the same way as LRC, except that

instead of finding $v_c(0)$ and $i_L(0)$ first you'll find $v_{c1}(0)$ and $v_{c2}(0)$.



P2 Concept: Find *i* (parallel) or *v* (series) of an RLC circuit Find: Find $v_C(t)$ in the following RLC circuit for $t \ge 0$. Hints: There are several 3's in the answer



P3 Concept: Find any *i* or *v* in an RLC circuit

Find: Find $v_C(t)$ in the following RLC circuit for $t \ge 0$.

Hints: One root of s is -5, and there is a 117 in the answer

