27.30 Consider the circuit shown at right. The capacitors are initially uncharged and all parameters indicated in the figure are considered known. At time $t=0$ the switch is closed.
a) Determine current in each branch of the circuit and voltage across each circuit element at the instant just after the switch is closed.
TIP: first redraw the circuit with uncharged capacitors acting like a short (a closed switch with zero resistance). Use this to determine the current paths.
b) Determine current in each branch of the circuit and voltage across each circuit element at the instant in steady-state (a long time after the switch was closed).
TIP: first redraw the circuit with fully charged capacitors acting like a break (an open switch with infinite resistance). Use this to determine the current paths.


