

14.3 For the network shown in Fig. P14.3, determine the value of the output voltage as $t \rightarrow \infty$.

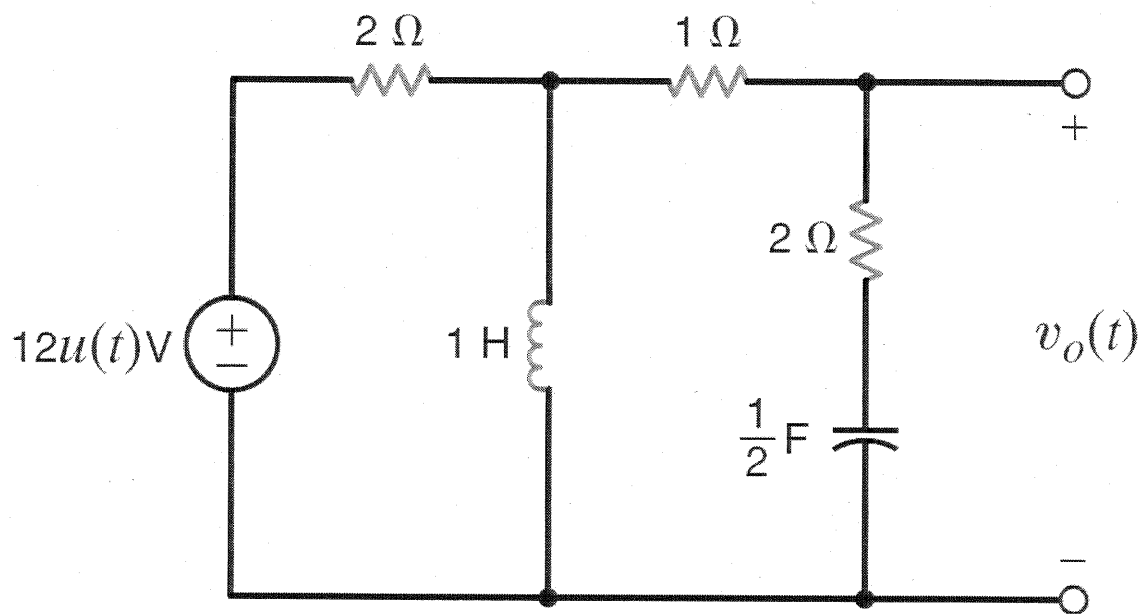
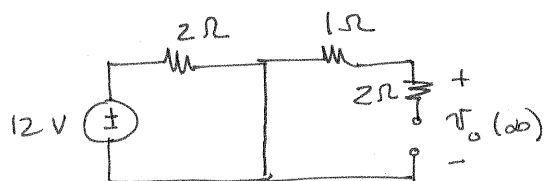


Figure P14.3

SOLUTION:

Since input is dc for $t > 0$, all voltages & currents will eventually go to dc as well. Thus $V_L \rightarrow 0$ & $i_C \rightarrow 0$ as $t \rightarrow \infty$.



$$v_o(\infty) = 0 \text{ V}$$