

14.38 Find $v_o(t)$, for $t > 0$, in the network in Fig. P14.38.

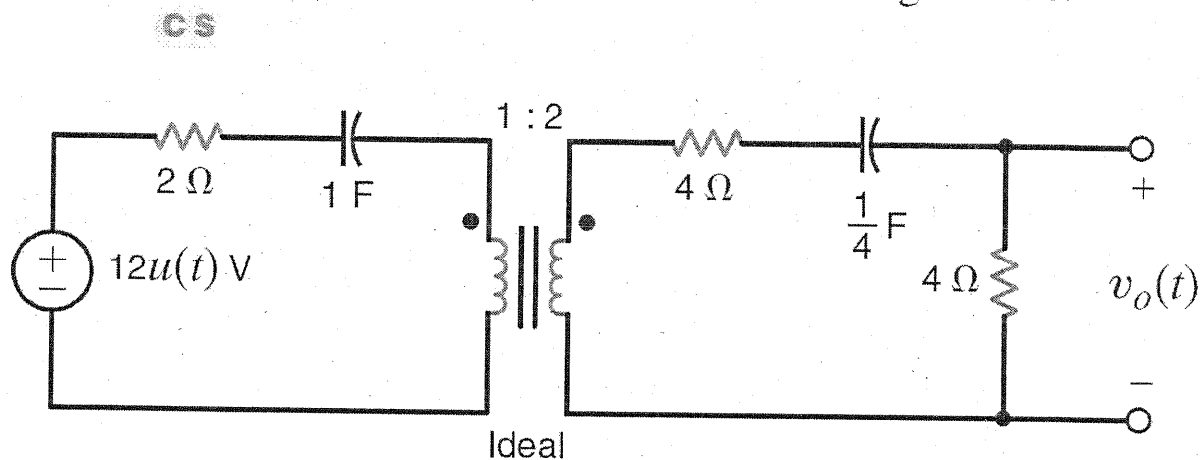
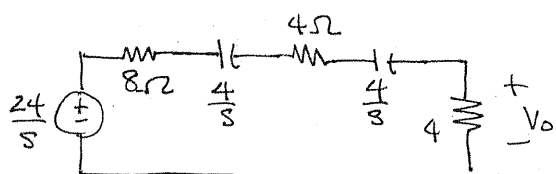
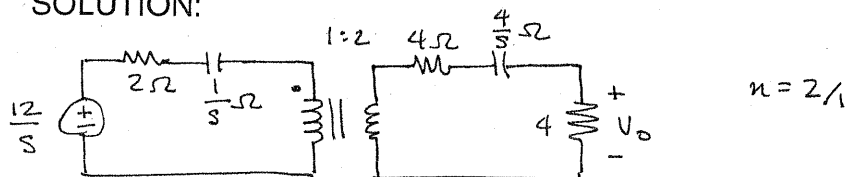


Figure P14.38

SOLUTION:



$$V_o = \frac{24}{s} \left[\frac{4}{(8/s) + 16} \right] \Rightarrow V_o = \frac{6}{s + 1/2}$$

$$v_o(t) = 6e^{-t/2} u(t) \text{ V}$$