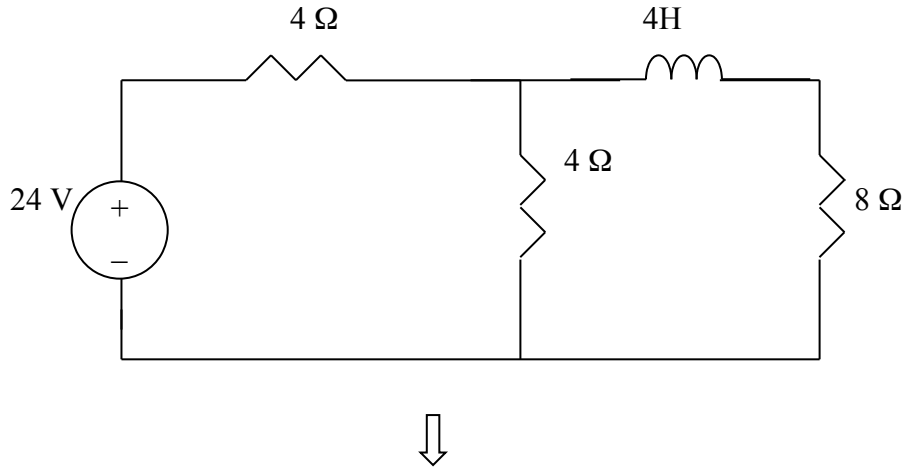
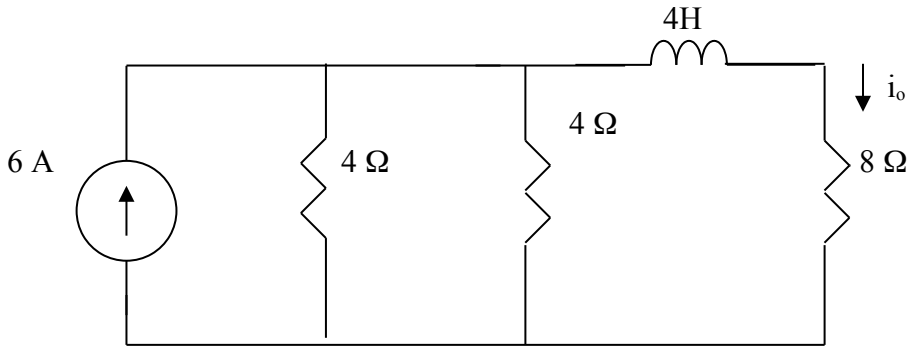
Chapter 7, Solution 11.

For t<0, we have the circuit shown below.





4||4= 4x4/8=2

$i_o(0^-) = [2/(2+8)]6 = 1.2$ A

For t >0, we have a source-free RL circuit.

$\tau = \frac{L}{R} = \frac{4}{4+8} = 1/3$ thus,

$i_o(t) = \mathbf{1.2e^{-3t}\ A}$.