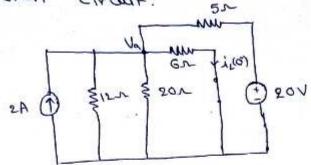
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Answer

from t=-00 to t=0 switch in closed, inductor acts as short circuit.



Apply nodal analysis at $\frac{V_a}{a}$ $-2 + \frac{V_a}{12} + \frac{V_a}{20} + \frac{V_a}{6} + \frac{V_a - 20}{6} = 0$

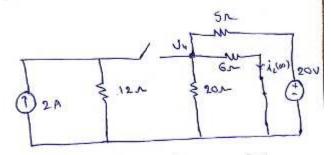
$$V_{\alpha} \left[\frac{1}{12} + \frac{1}{20} + \frac{1}{6} + \frac{1}{5} \right] = 6$$

$$\left[V_{\alpha} = 12V \right]$$

$$\lambda_{L}(0^{+}) = \lambda_{L}(0^{+}) = \frac{Vq}{6} = \frac{12}{6}$$

$$(\lambda_{L}(0^{+}) = 2A)$$

at t=0 switch is open, at t=0 inductor acts as short circuit.



Apply nodal analyse at V's

$$\frac{V_{6}}{20} + \frac{V_{5}}{6} + \frac{V_{5} - 20}{5} = 0$$

$$V_{6} \left[\frac{1}{20} + \frac{1}{6} + \frac{1}{5} \right] = 4$$

No= 9.60

For
$$1 > 0$$
 $1 \le \frac{1}{6} = 1.6 \text{ A}.$
 $1 = \frac{1}{16} (00) + [i_1(01) - i_1(00)] e^{\frac{1}{1}} e^{\frac{1}$

Likes: 3 Dislikes: 0