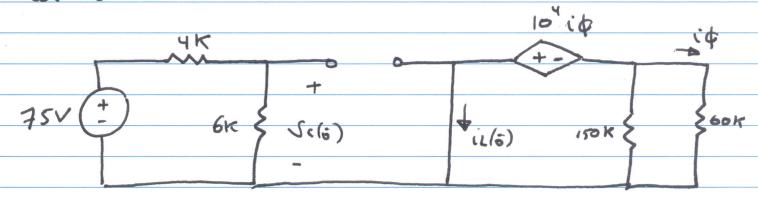
Homework Solutions Ch. 8 EE 231

8.8

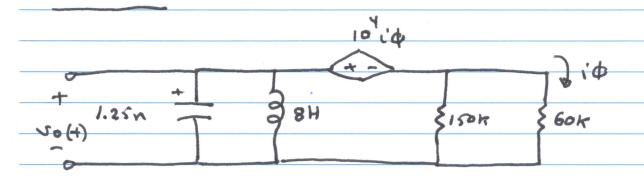
$$S_1 = - \times + \sqrt{x^2 - w_0^2} = -1000$$

b) ir(+) = 
$$\frac{5(+)}{R}$$
 = -e + 4e mA for + >0

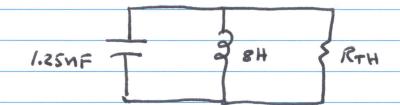
at 
$$t = \vec{0}$$



## For to



The Circuit Can be simplied to the following



$$R_{TH} = \frac{\sqrt{1}}{I_T}$$

$$V_T = \frac{10 \text{ id}}{4} + 60 \text{ id}$$

$$V_T = \frac{10 \text{ id}}{4} + 60 \text{ id}$$

$$V_T = \frac{\sqrt{150} \text{ k}}{\sqrt{50} \text{ k} + 60 \text{ k}}$$

$$V_T = \frac{\sqrt{17}}{\sqrt{50} \text{ k} + 60 \text{ k}}$$

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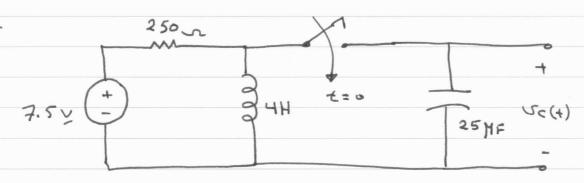
$$V_T = \frac{\sqrt{17}}{\sqrt{50} \text{ k}} + 60 \text{ k}$$

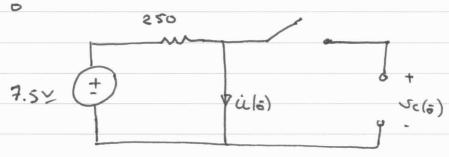
$$V_T = \frac{\sqrt{17}}{\sqrt{50} \text{ k}} + 60 \text{ k}$$

$$V_T = \frac{\sqrt{17}}{\sqrt{50} \text{ k}} + \frac{100 \text{ k}}{\sqrt{50} \text{ k}} + \frac{100 \text{ k}}{\sqrt{50$$

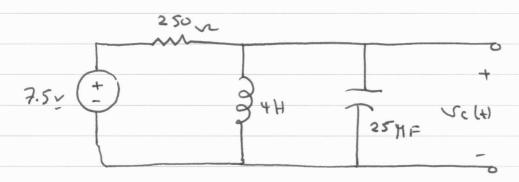
$$C \frac{dv_{c}(6t)}{dt} + \frac{v_{c}(6t)}{2} + i(6) + 0 = 0$$

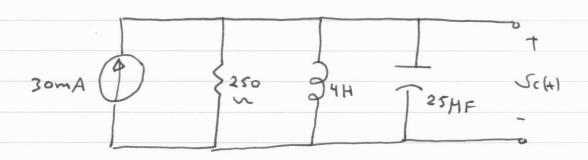




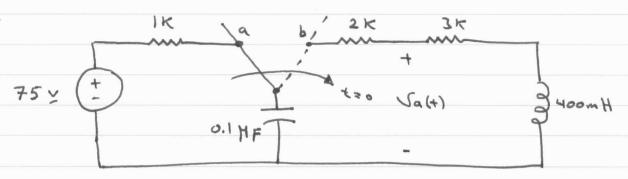


## for to

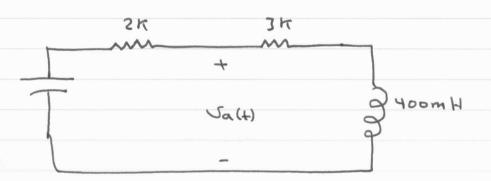


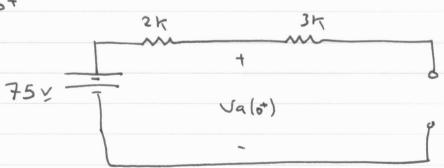






## for t>0



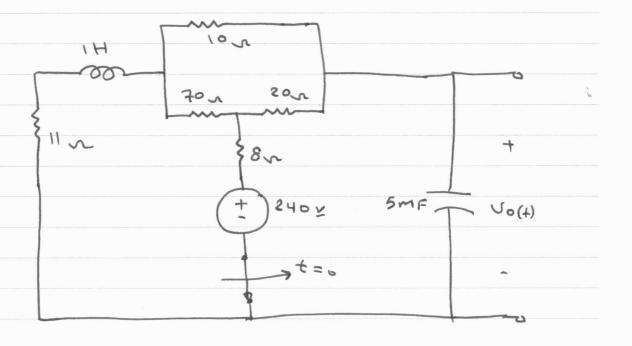


for + > 0

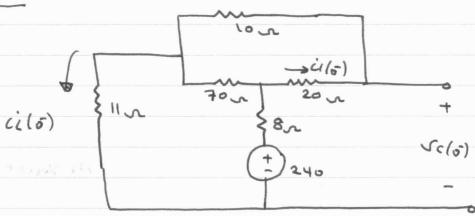
at + = 0+

c) 
$$\propto = \frac{R}{2L} = \frac{5K}{0.8} = 6250 \text{ V/s}$$

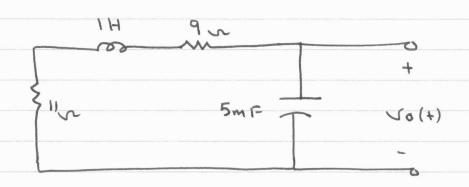
8.49



at = 0



$$C((5) = \frac{240}{8 + (20 + 10) || 70 + 11} = 6A$$



$$\alpha = \frac{R}{2L} = \frac{20}{2} = 10 \text{ v/s}$$

Since wo > a

$$\frac{dU_0(o^{\dagger})}{dt} = -\frac{ii(o^{\dagger})}{c} = -1200$$