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7.11 For the circuit in Fig. 7.91, find i_o for $t > 0$.

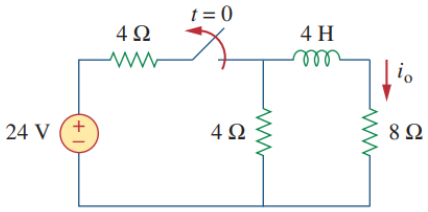
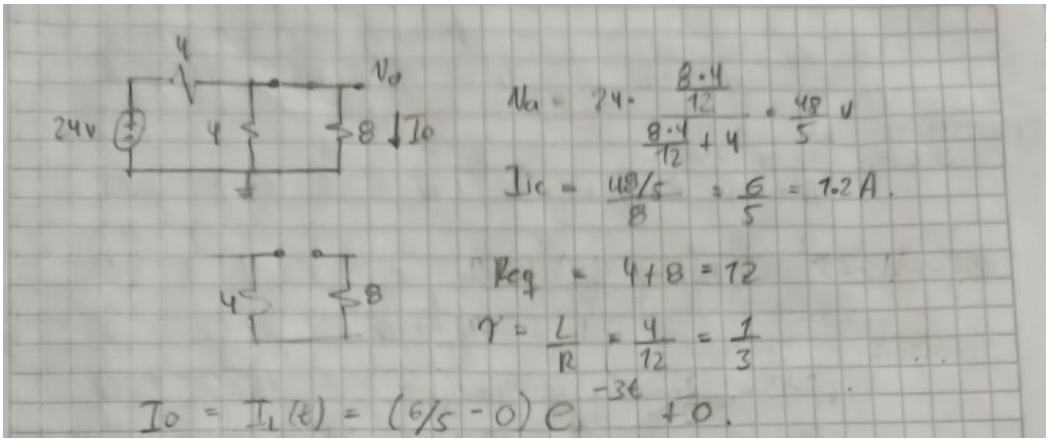


Figure 7.91
For Prob. 7.11.



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7.19 In the circuit of Fig. 7.99, find $i(t)$ for $t > 0$ if $i(0) = 6$ A.

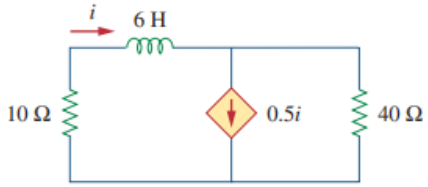
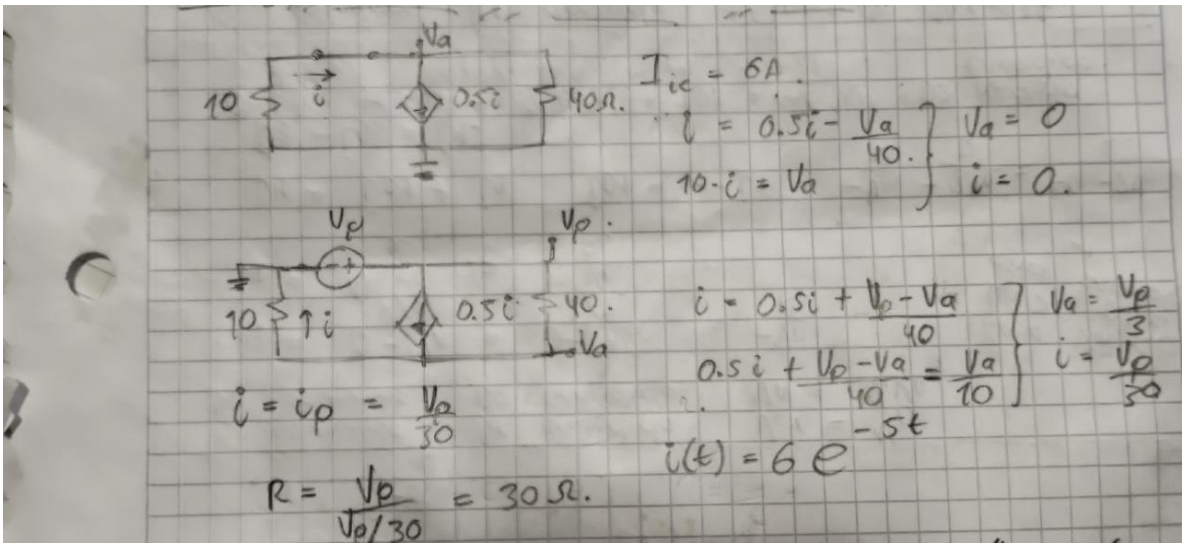


Figure 7.99
For Prob. 7.19.



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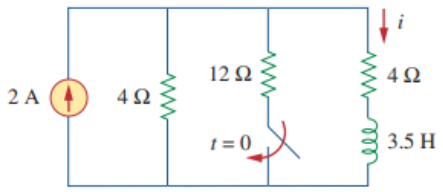
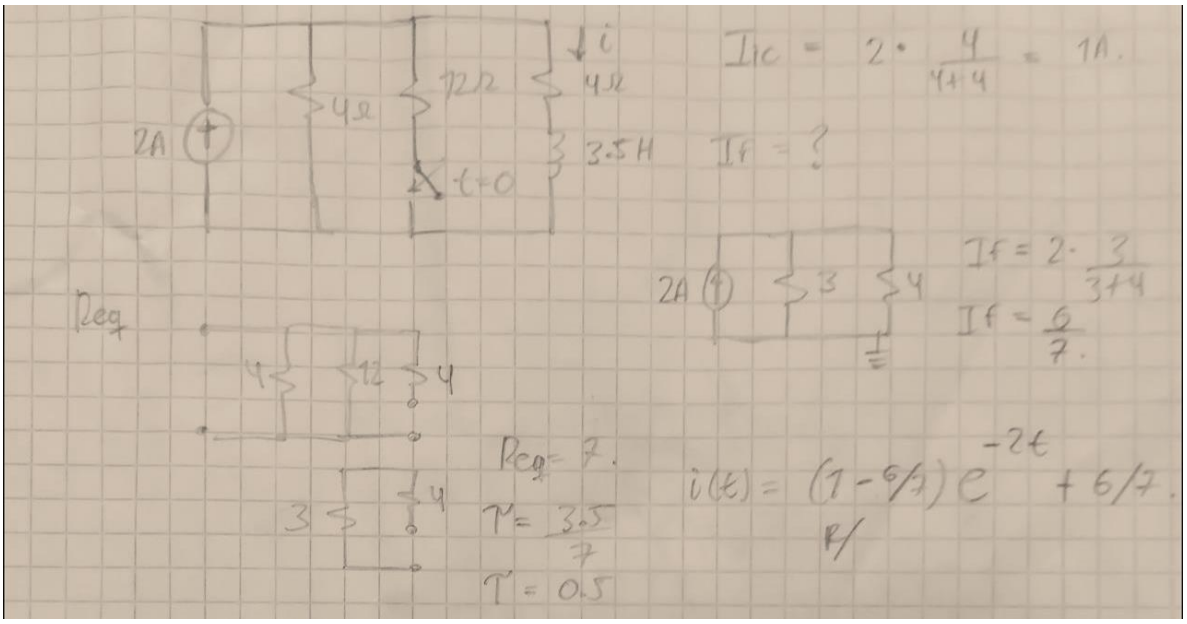
7.54 Obtain the inductor current for both $t < 0$ and $t > 0$ in each of the circuits in Fig. 7.120.



(a)


2A
4Ω
12Ω
4Ω
3.5H
t=0
i
Req
4
12
4
3
4
Req = 7.
τ = 3.5/7
τ = 0.5
Icc = 2 · 4/(4+4) = 1A.
If = ?
2A
3
4
If = 2 · 3/(3+4)
If = 6/7.
i(t) = (1 - 6/7) e^-2t + 6/7.
R/

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Determine the rms value of the current waveform in Fig. 11.14. If the current is passed through a 2-Ω resistor, find the average power absorbed by the resistor.

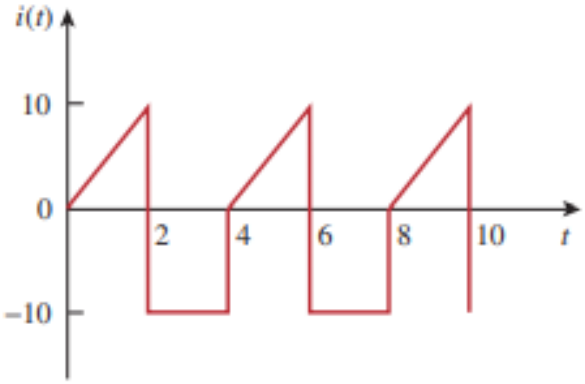
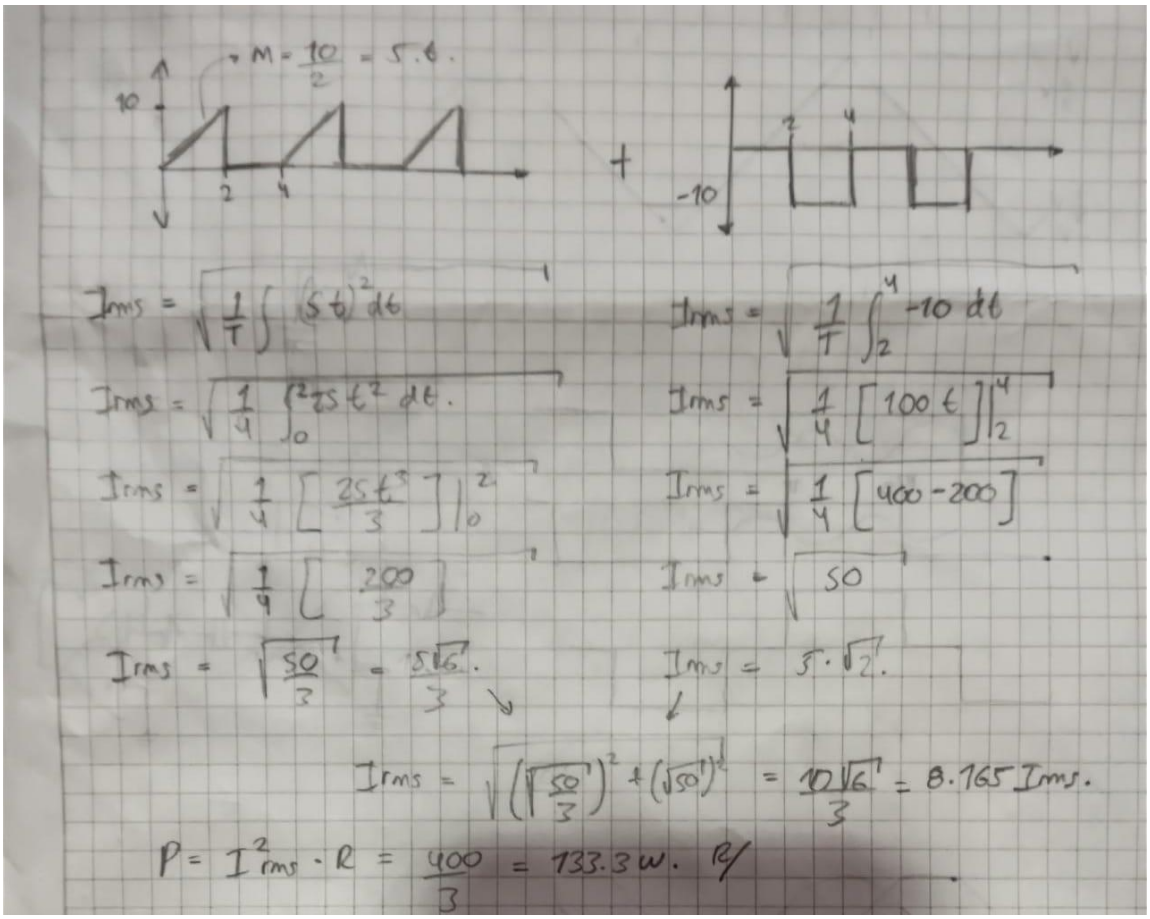


Figure 11.14
For Example 11.7.



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6.73 Show that the circuit in Fig. 6.90 is a noninverting integrator.

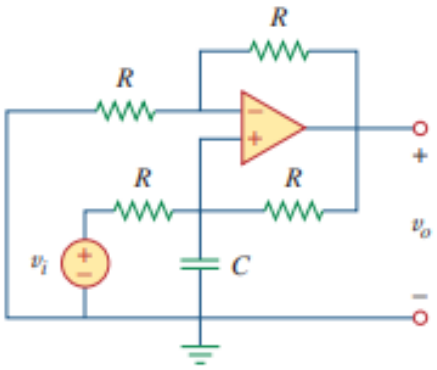
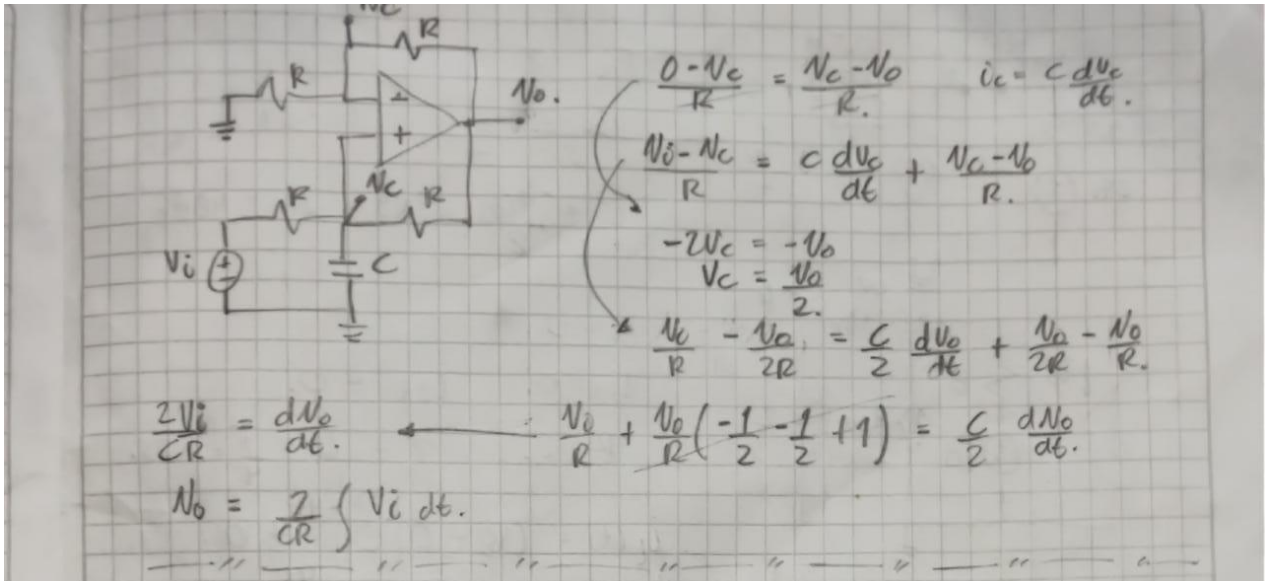


Figure 6.90
For Prob. 6.73.



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6.69 An op amp integrator with $R = 4\ \text{M}\Omega$ and $C = 1\ \mu\text{F}$ has the input waveform shown in Fig. 6.88. Plot the output waveform.

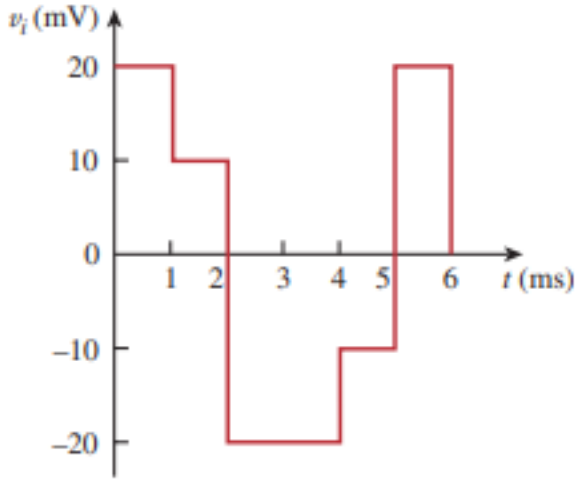

Figure 6.88
For Prob. 6.69.