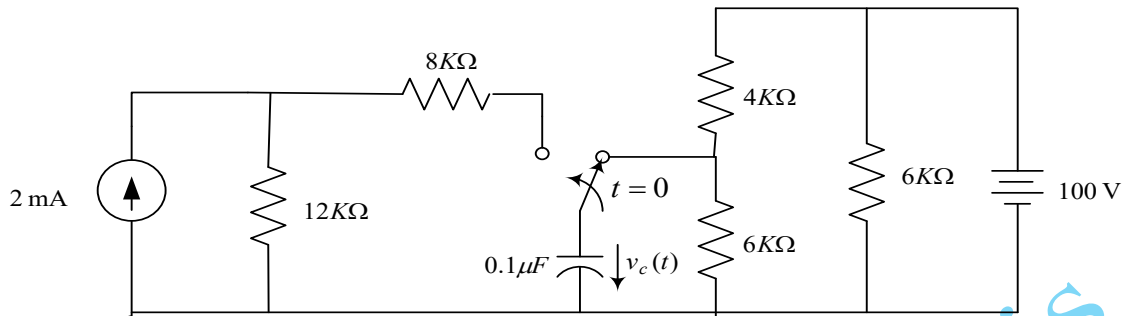


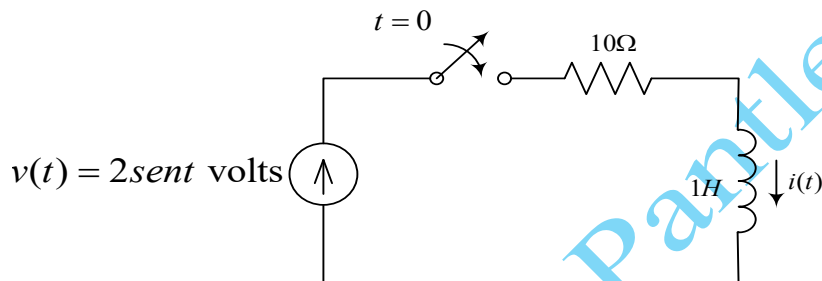
Problemas de análisis de transitorios. Primera parte

1 Calcular $v_c(t)$ para $t \geq 0$



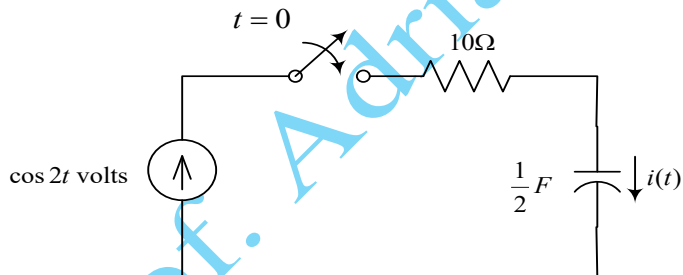
Resp. $v_c(t) = 24 + 36e^{-500t}$ [V]

2 Calcular $i(t)$ para $t \geq 0$



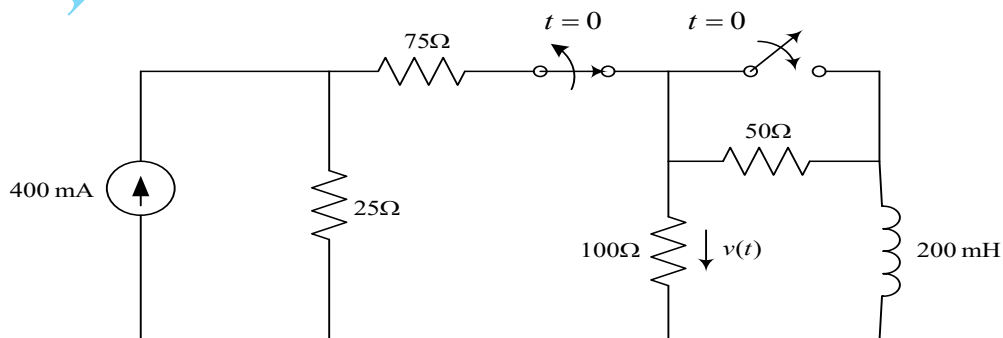
Resp. $i(t) = 0.0198e^{-10t} + 0.198sen t - 0.0198cos t$ [A]

3 Calcular $i(t)$ para $t \geq 0$



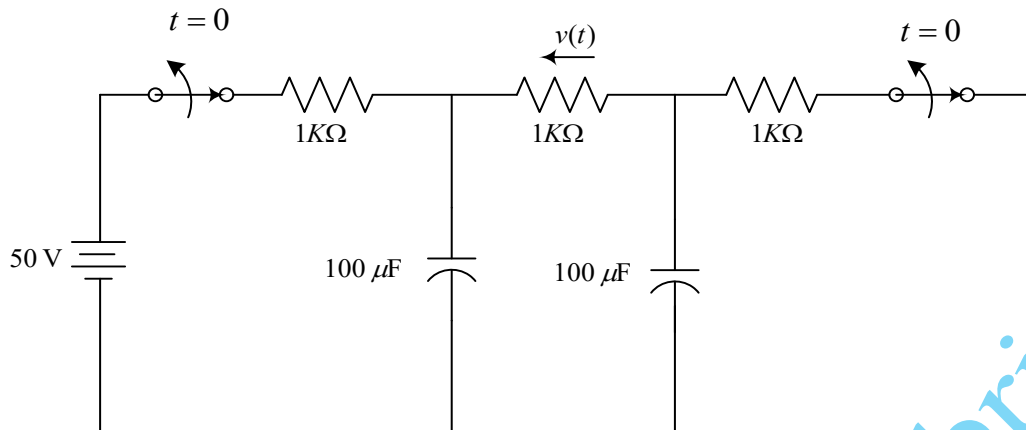
Resp. $i(t) = 0.99 \times 10^{-3} e^{-0.2t} - 9.9 \times 10^{-3} sen 2t + 99 \times 10^{-3} cos 2t$ [A]

4 Calcular $v(t)$ para $t \geq 0$



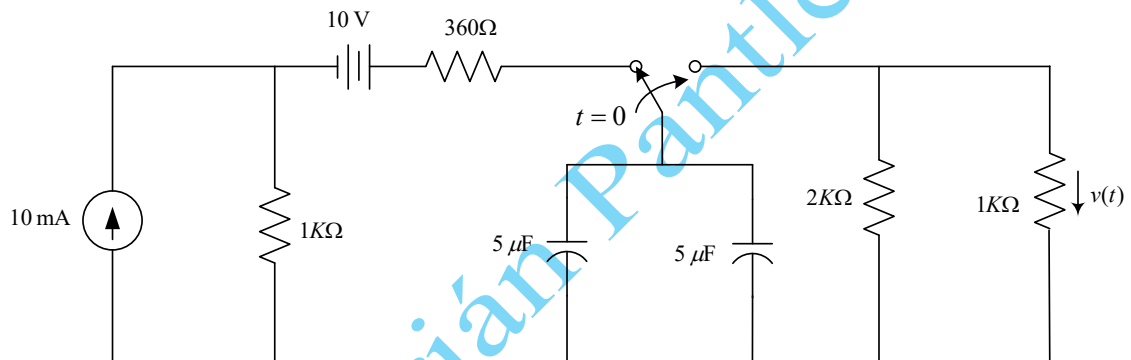
Resp. $v(t) = -5e^{-500t}$ [V]

5 Calcular $v(t)$ para $t \geq 0$



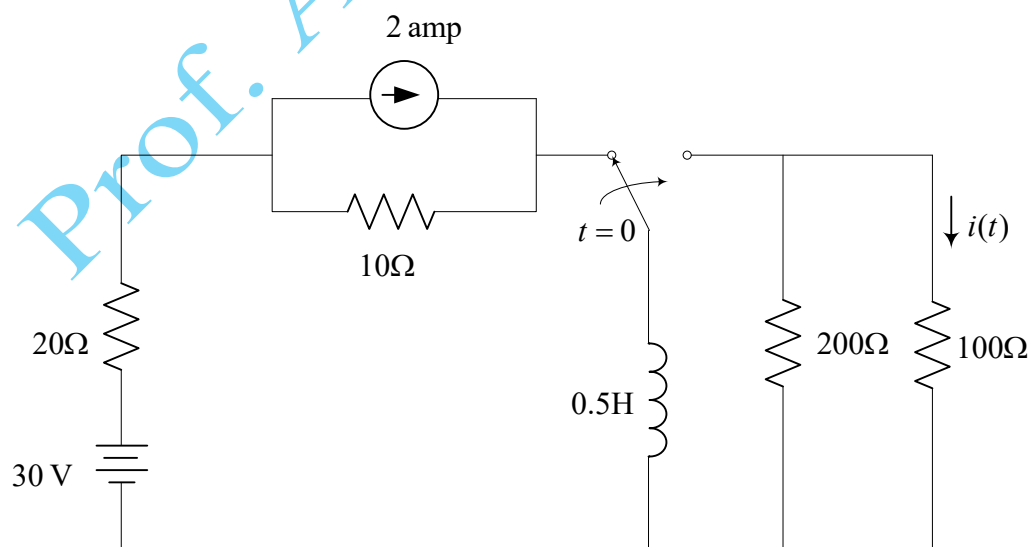
Resp. $v(t) = -16.64e^{-20t}$ [V]

6 Calcular $v(t)$ para $t \geq 0$



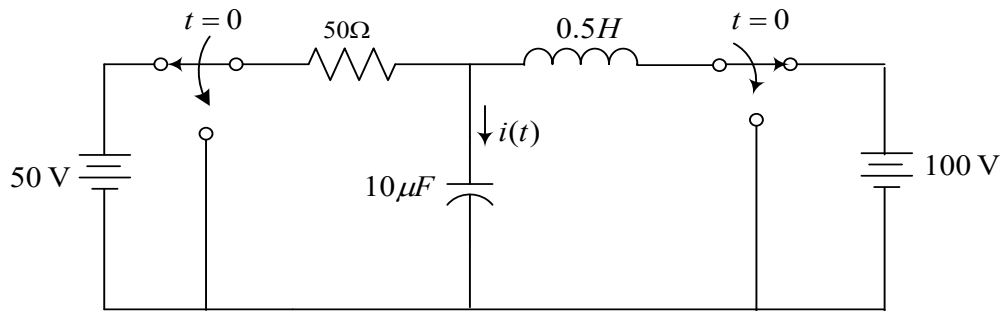
Resp. $v(t) = 20e^{-150t}$ [V]

7 Calcular $i(t)$ para $t \geq 0$



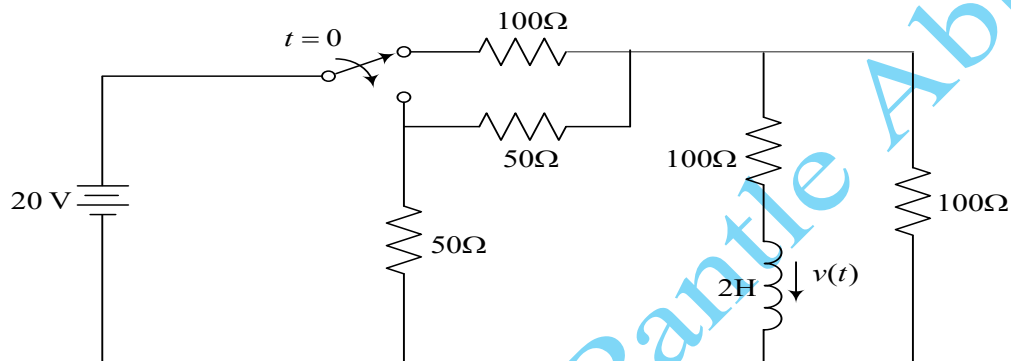
Resp. $i(t) = -1.11e^{-133.3t}$ [A]

8. Calcular $i(t)$ para $t \geq 0$



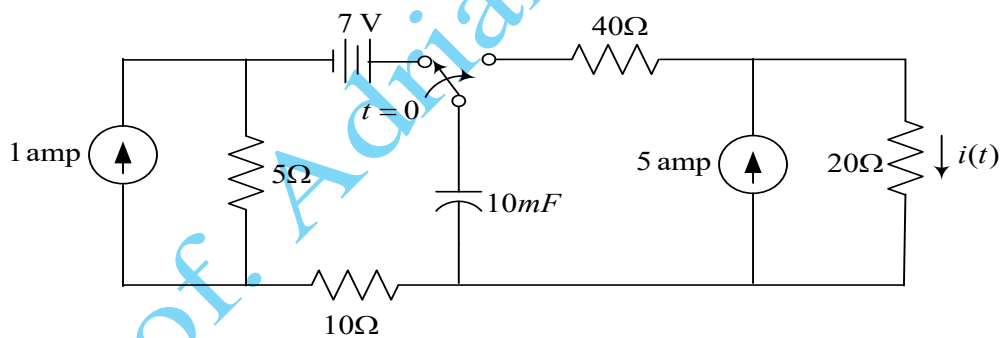
Resp. $i(t) = 1.17e^{-1894.42t} - 0.17e^{-105.57t}$ [A]

9 Calcular $v(t)$ para $t \geq 0$



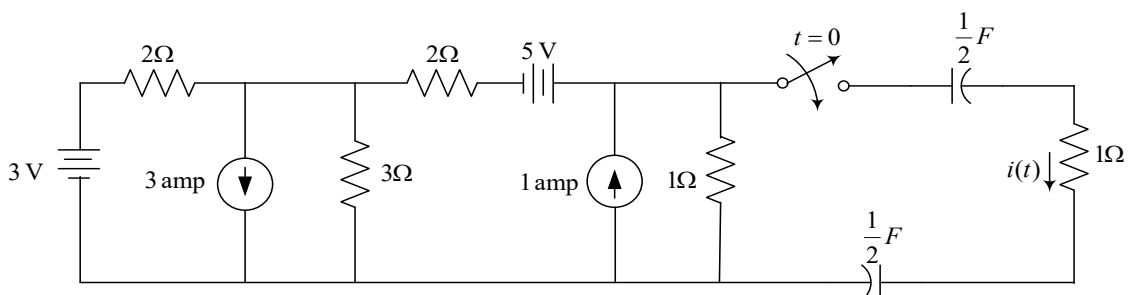
Resp. $v_L(t) = 8e^{-70t}$ [V]

10 Calcular $i(t)$ para $t \geq 0$



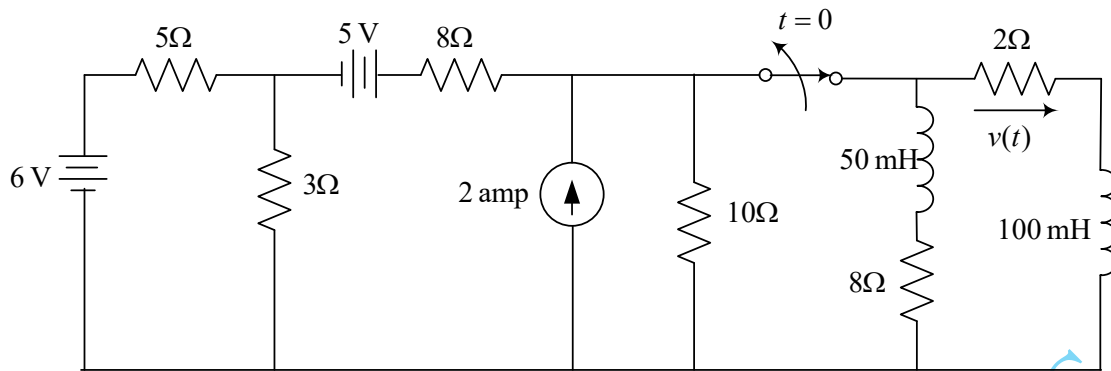
Resp. $i(t) = 5 - 1.44e^{-1.66t}$ [A]

11 Calcular $i(t)$ para $t \geq 0$

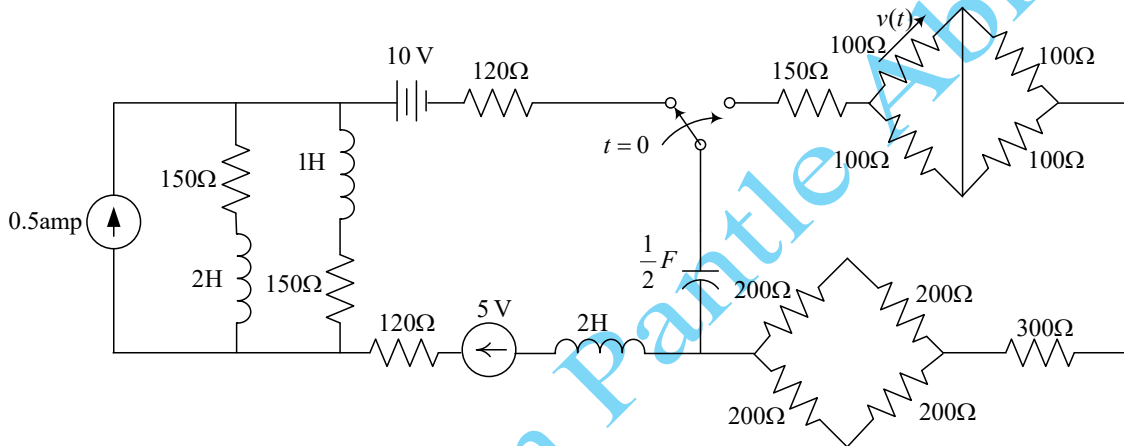


Resp. $i(t) = 864.86 \times 10^{-3} e^{-2.27t}$ [A]

12 Calcular $v(t)$ para $t \geq 0$

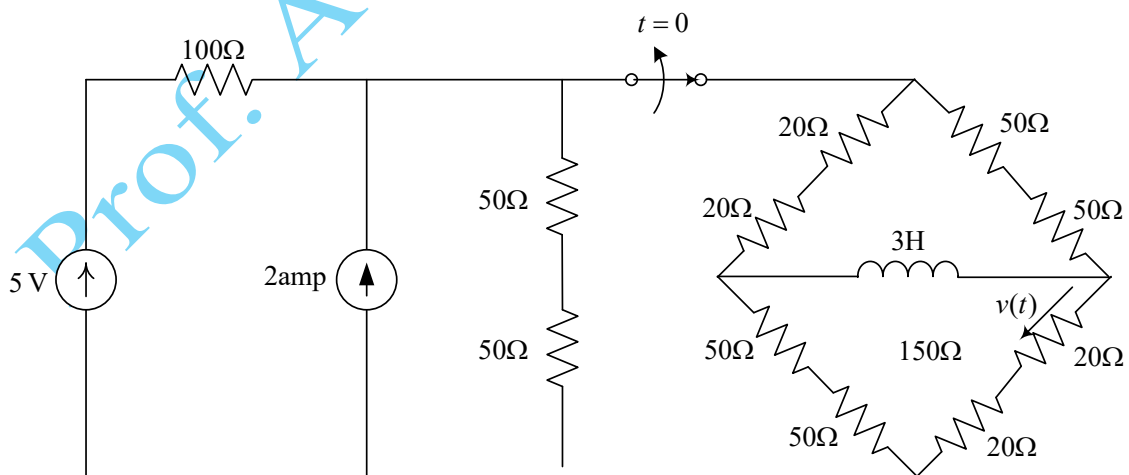


13 Calcular $v(t)$ para $t \geq 0$



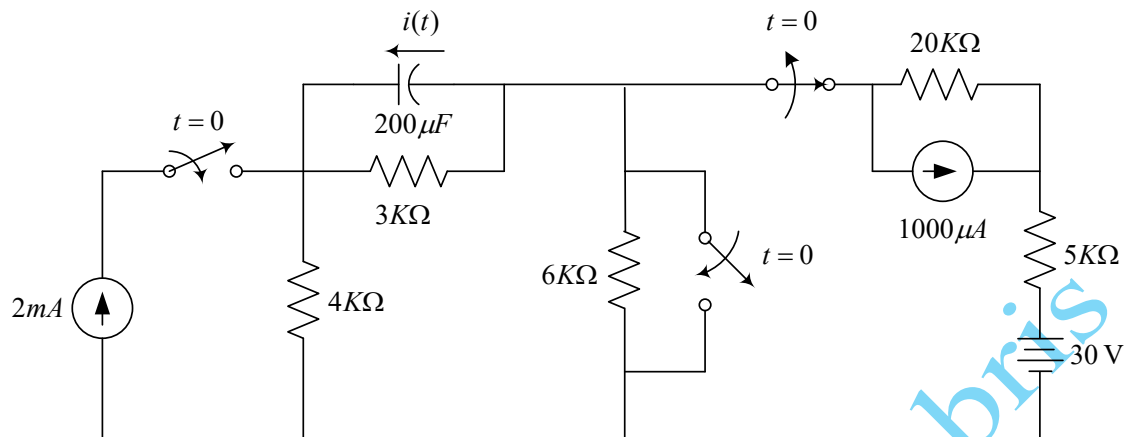
Resp. $v(t) = 2.166e^{-0.00266t}$ [V]

14 Calcular $v(t)$ para $t \geq 0$



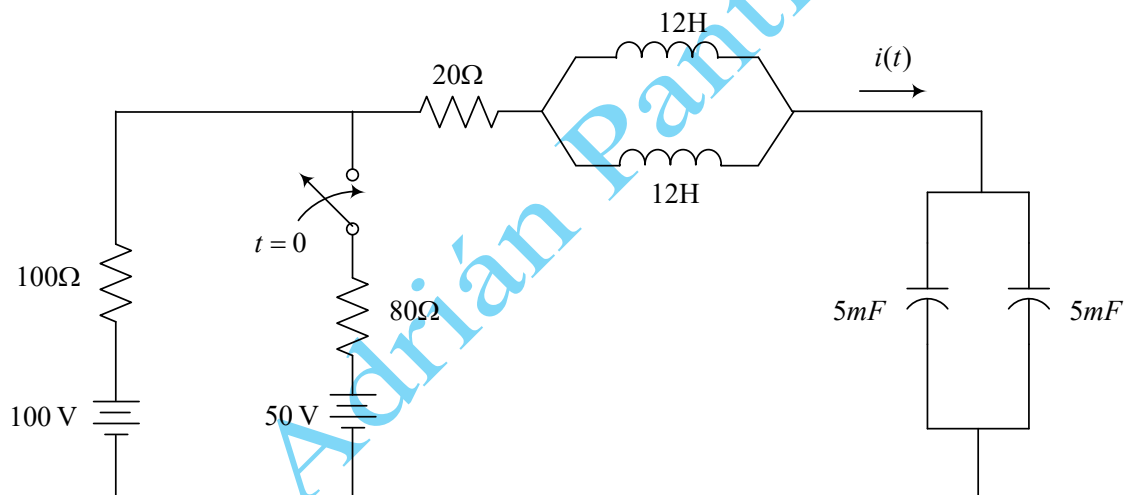
Resp. $v(t) = 4.1e^{-23.33t}$ [V]

16 Calcular $i(t)$ para $t \geq 0$



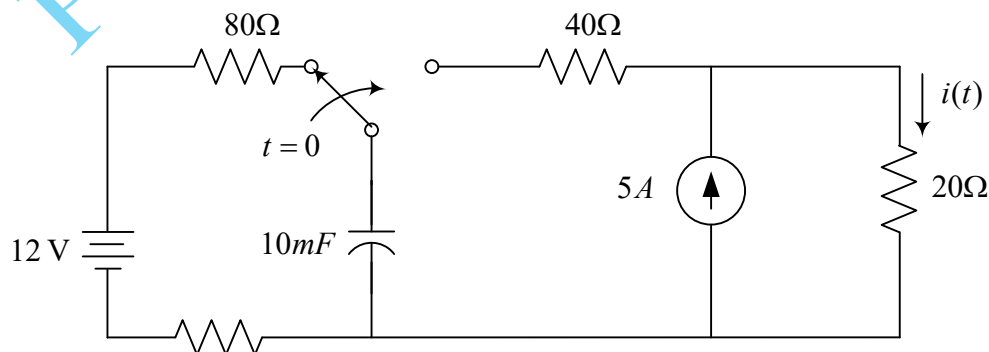
Resp. $i_c(t) = -1.71 \times 10^{-3} e^{-2.92t}$ [A]

17 Calcular $i(t)$ para $t \geq 0$



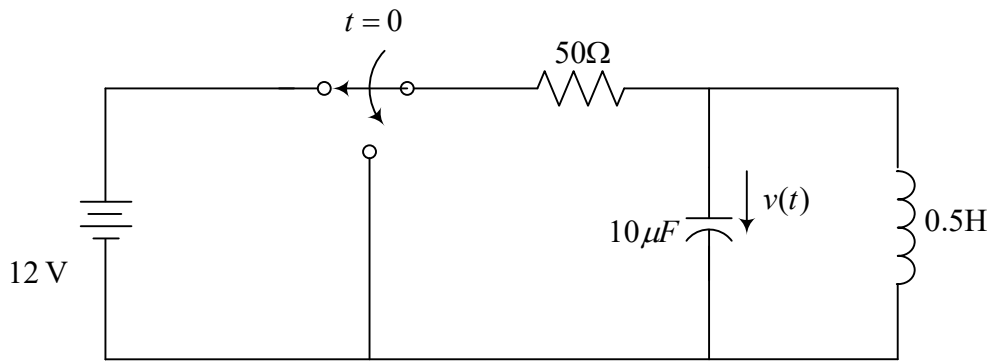
Resp. $i(t) = 0.66e^{-8.86t} - 0.66e^{-1.88t}$ [A]

18 Calcular $i(t)$ para $t \geq 0$



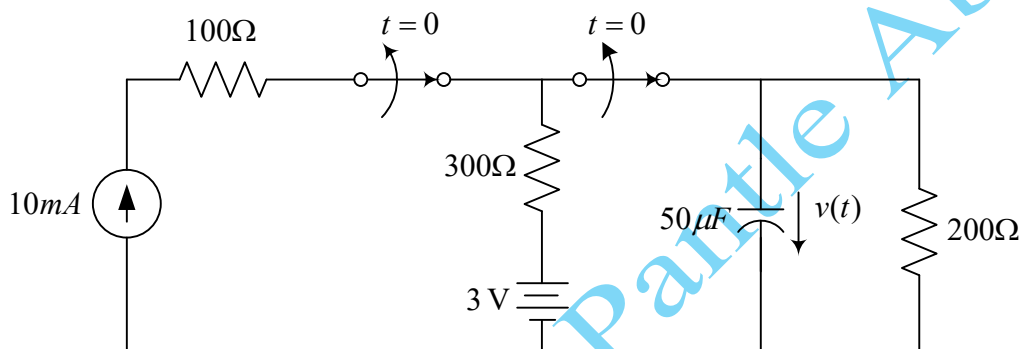
Resp. $i(t) = 5 - 1.46e^{-1.66t}$ [A]

19 Calcular $v(t)$ para $t \geq 0$



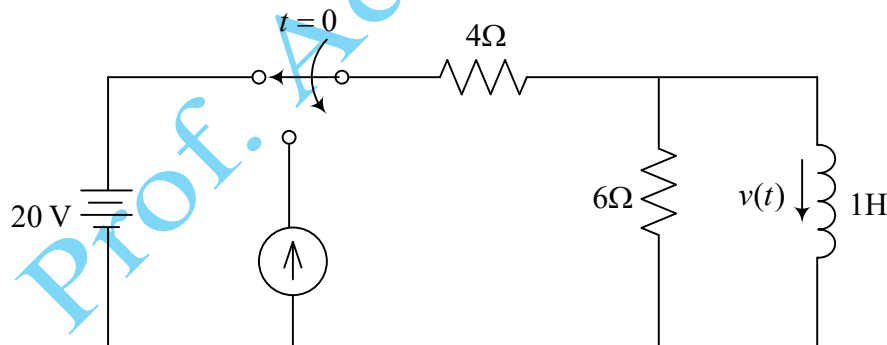
Resp. $v_c(t) = -13.42e^{-105.57t} + 13.42e^{-1894.42t}$ [V]

20 Calcular $v(t)$ para $t \geq 0$



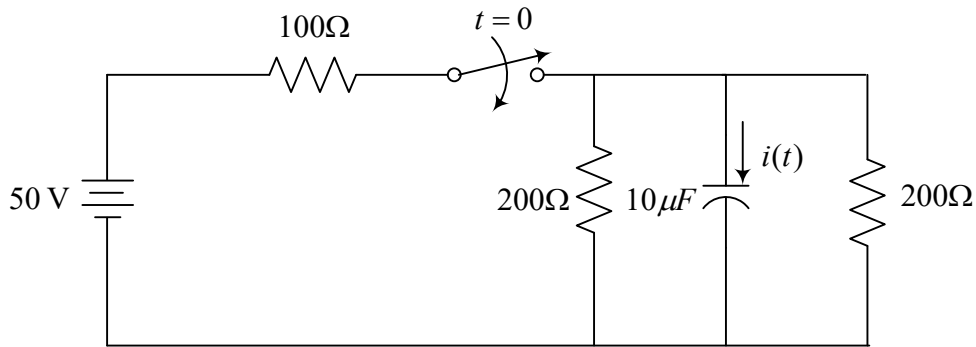
Resp. $v_c(t) = 24e^{-100t}$ [V]

21 Calcular $v(t)$ para $t \geq 0$



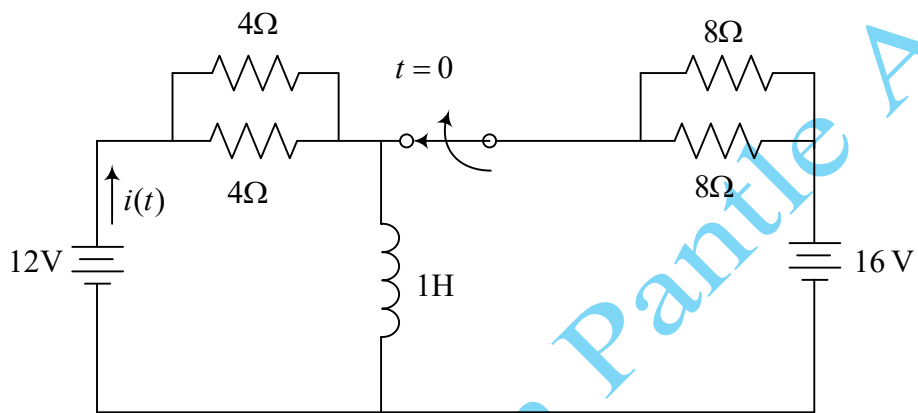
Resp. $v_L(t) = 12e^{-4t} - 19.2e^{-2.4t}$ [V]

22 Calcular $i(t)$ para $t \geq 0$



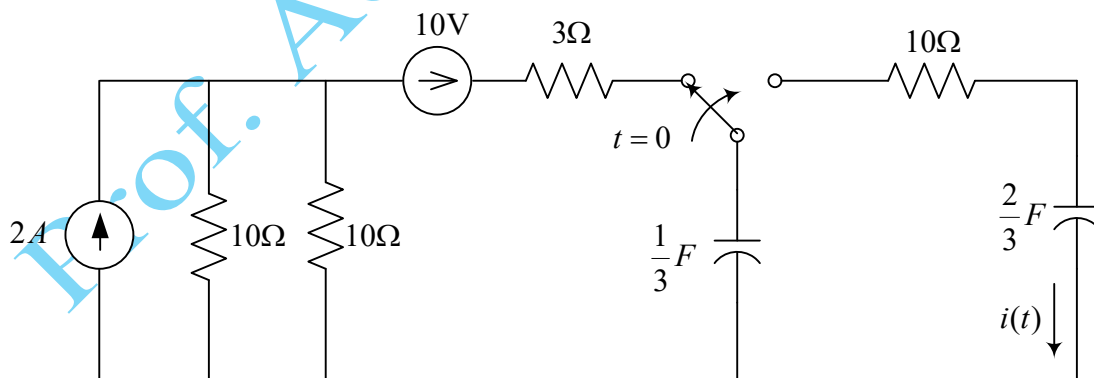
Resp. $i(t) = 0.5e^{-2000t}$ [A]

23 Calcular $i(t)$ para $t \geq 0$



Resp. $i(t) = 6 + 4e^{-2t}$ [A]

24 Calcular $i(t)$ para $t \geq 0$



Resp. $i(t) = 2e^{-0.45t}$ [A]