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$$\frac{R + h_2}{M + 10k} = \frac{\sqrt{4}h_2}{10k} - \frac{\sqrt{4}h_2}{\sqrt{4}k} - \frac{\sqrt{4}h_2}{\sqrt{4}k} = \frac{2}{10} \frac{\sqrt{4}}{\sqrt{4}k} = \frac{2}{10} \frac{\sqrt{4}}{\sqrt{4}} = \frac{2}{10} \frac{\sqrt{4}}$$

Em t=0; t=100 m; Vth2=-2.0V; Vc(t)=1,0V

t=100+48=148/47

$$i_{c(t)} = \frac{-2 - 1}{2.4 \, \text{K}} = \frac{-3}{2.4 \, \text{K}} = \frac{-1,25 \, \text{mA}}{2}$$

$$V_{c}(\lambda) = 1 + (-2 - 1)(1 - e^{-t/\tau_{2}}) = 1 - 3(1 - e^{-t/\tau_{2}})$$

$$V_{c}(t) = -2 + 3e^{-t/\tau_{2}}$$
 $t=0$
 $V_{c}(0) = 1,0V$
 $t=\infty$
 $V_{c}(\infty) = -2,0V$

$$T_{c(k)} = \frac{V_{k_{2}} - V_{c(k)}}{R_{k_{2}}} = \frac{-2 \cdot (-2 + 3 \cdot e^{-k/c})}{2 \cdot 4} \Rightarrow \frac{-2 + 2 \cdot 3 \cdot e^{-k/c}}{2 \cdot 4}$$

$$T_{c(k)} = \frac{-3 \cdot e^{-k/c}}{2 \cdot 4} \Rightarrow \frac{1}{2 \cdot 4}$$