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$v = e v_0 + e v_0 v$ Substituting into Eq. (1) $\frac{d^2 v}{dt^2} + e v_0 + e v_0 v = i(t)$ (2)
 Setting $i(t) = 0$ and letting the circuit reach steady state, the capacitor acts like an open circuit. Thus, $v_0 = v_r$ with $i_r = 2$. But, $i_r = e v_r$ or $v_r = \ln i_r$. Hence, $v_0 = \ln 2 = 0.693$. Substituting this value of v_0 into Eq. (2) yields

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$v = v_0 + \int_{v_0}^v dv = v_0 + \int_{t_0}^t \frac{dv}{dt} dt = v_0 + \int_{t_0}^t i(t) dt$ (2)

Setting $i(t) = 0$ and letting the circuit reach steady state, the capacitor acts like an open circuit. Thus, $v_0 = v_r$ with $i_r = 2$. But, $i_r = e^{-v_r} / R$ or $v_r = \ln i_r$. Hence, $v_0 = \ln 2 = 0.693$.

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