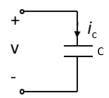
Cheat sheet & Scratch paper



$$i_c = C \cdot \frac{dV}{dt}$$
 $V(0^+) = V(0^-)$



$$i_L = i_L(0^+) + \frac{1}{L} \int_0^t V \cdot dt$$

 $i_L(0^+) = i_L(0^-)$

For 1st order differential equation, $\frac{dv}{dt} + A \cdot v = B$, the general solution is $v(t) = \frac{B}{A} + k \cdot e^{-A \cdot t}$

For 2nd order differential equation, $\frac{d^2v}{dt^2} + A \cdot \frac{dv}{dt} + B \cdot v = C$, $2\alpha = A$; $\omega_0^2 = B$