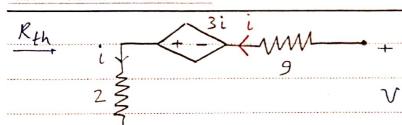
$\frac{L(s)=0}{dt} = 0$ $= csize ull R_{th}$



$$\rightarrow 9i - 3i + 2i = V \rightarrow V = 8i \rightarrow R_{th} = 8$$

$$\Rightarrow \alpha = \frac{R}{2L} = 0.8$$

$$\omega_0 = \frac{1}{\sqrt{LC}} = 10$$

$$\frac{d^{2}V}{dt^{2}} + 4\frac{dV}{dt} + 3V(t) = 3\delta(t)$$

$$2\alpha = 4$$
, $\omega_o = \sqrt{3} \left(\alpha > \omega_o \rightarrow \rho_1, \rho_2 = -\alpha + \sqrt{\alpha^2 - \omega_o^2}\right)$

$$\frac{d^n V_{(t)}}{dt^n} + \cdots + a_n V_{(t)} = \frac{d^m S_{(t)}}{dt^m} + \cdots + b_m S_{(t)}$$