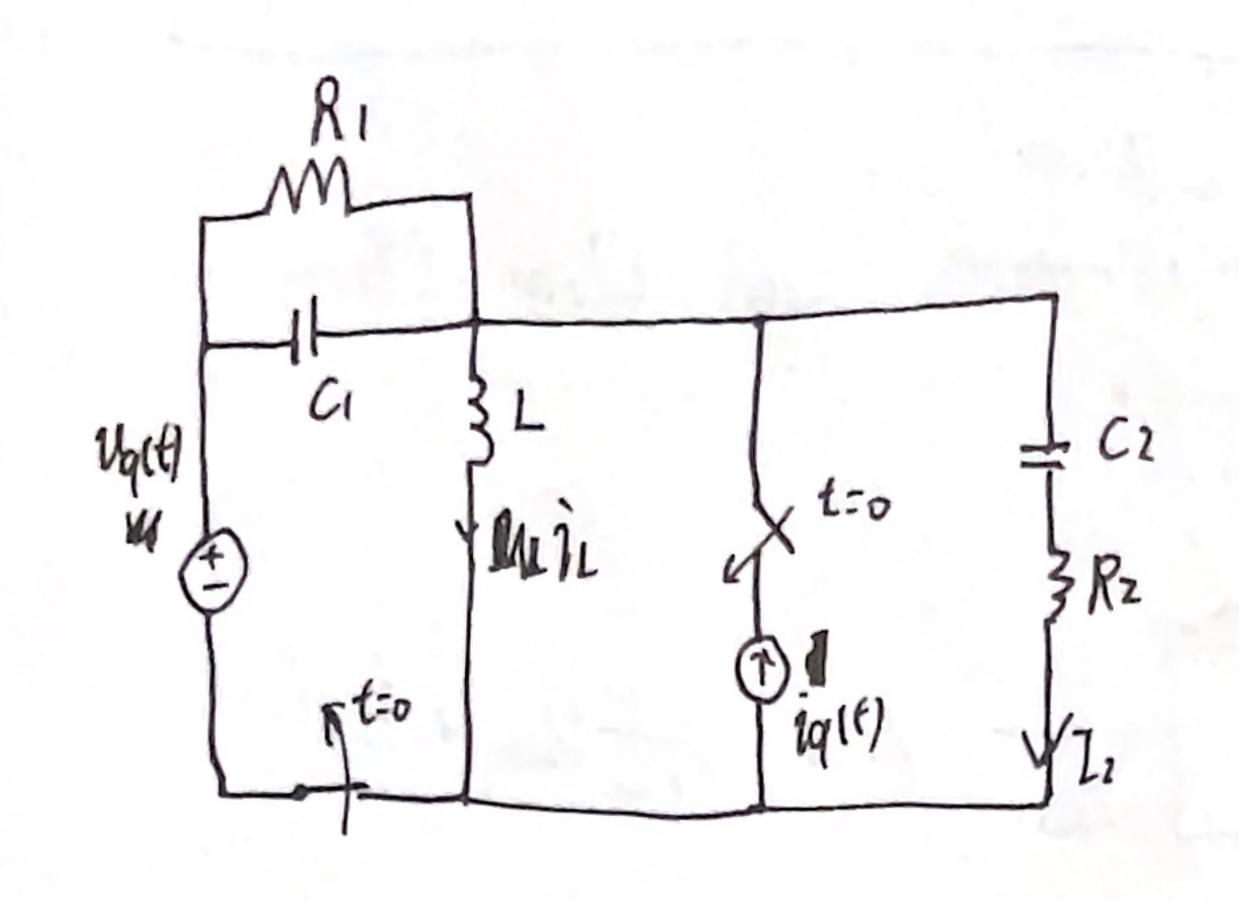
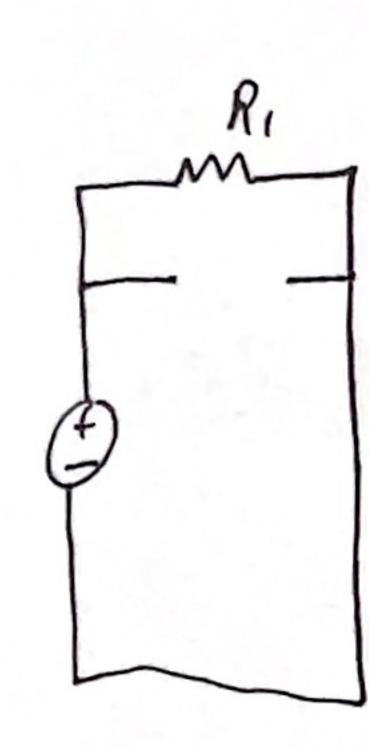
## Schoolesse Laplace bereich



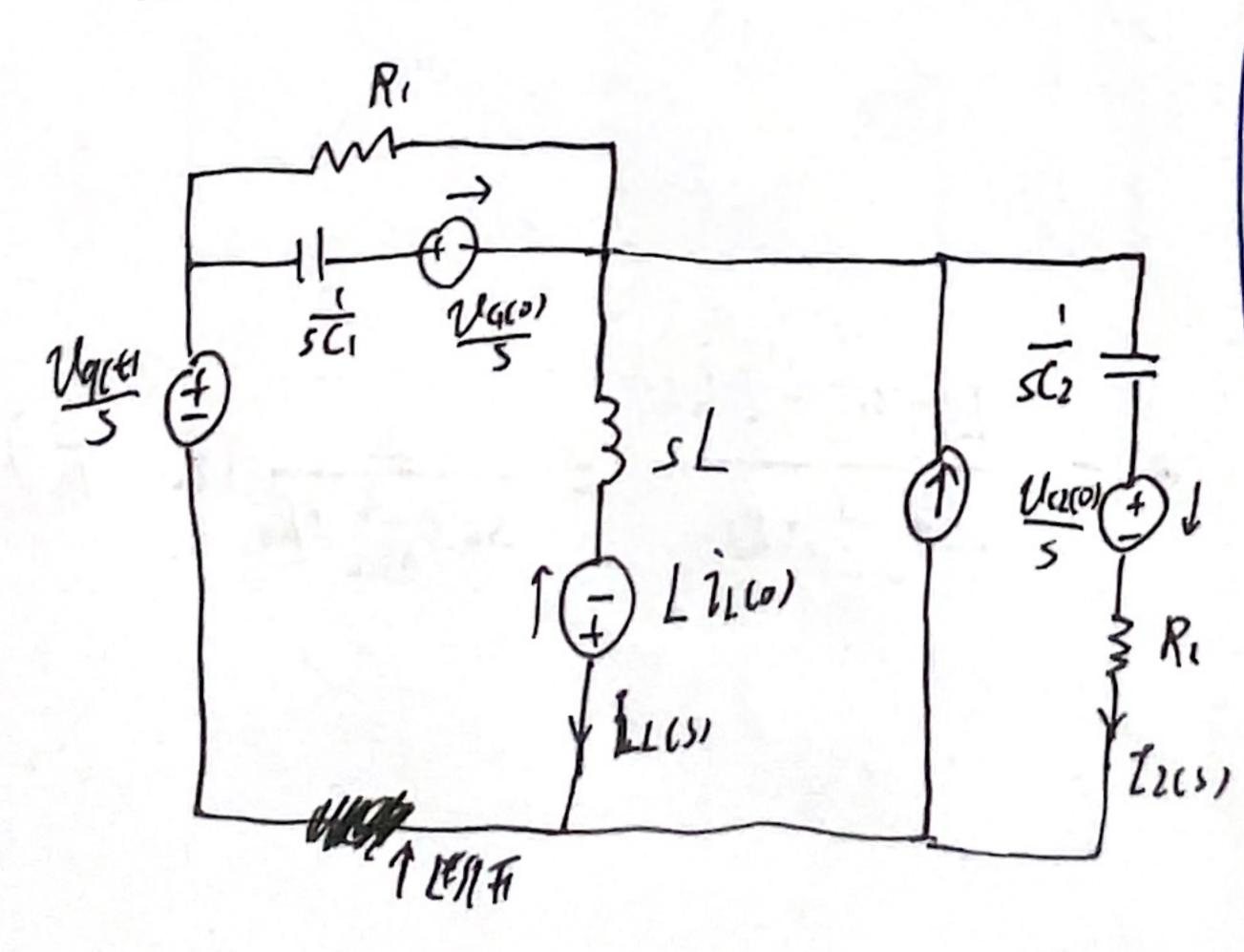
teo, eingenhungen

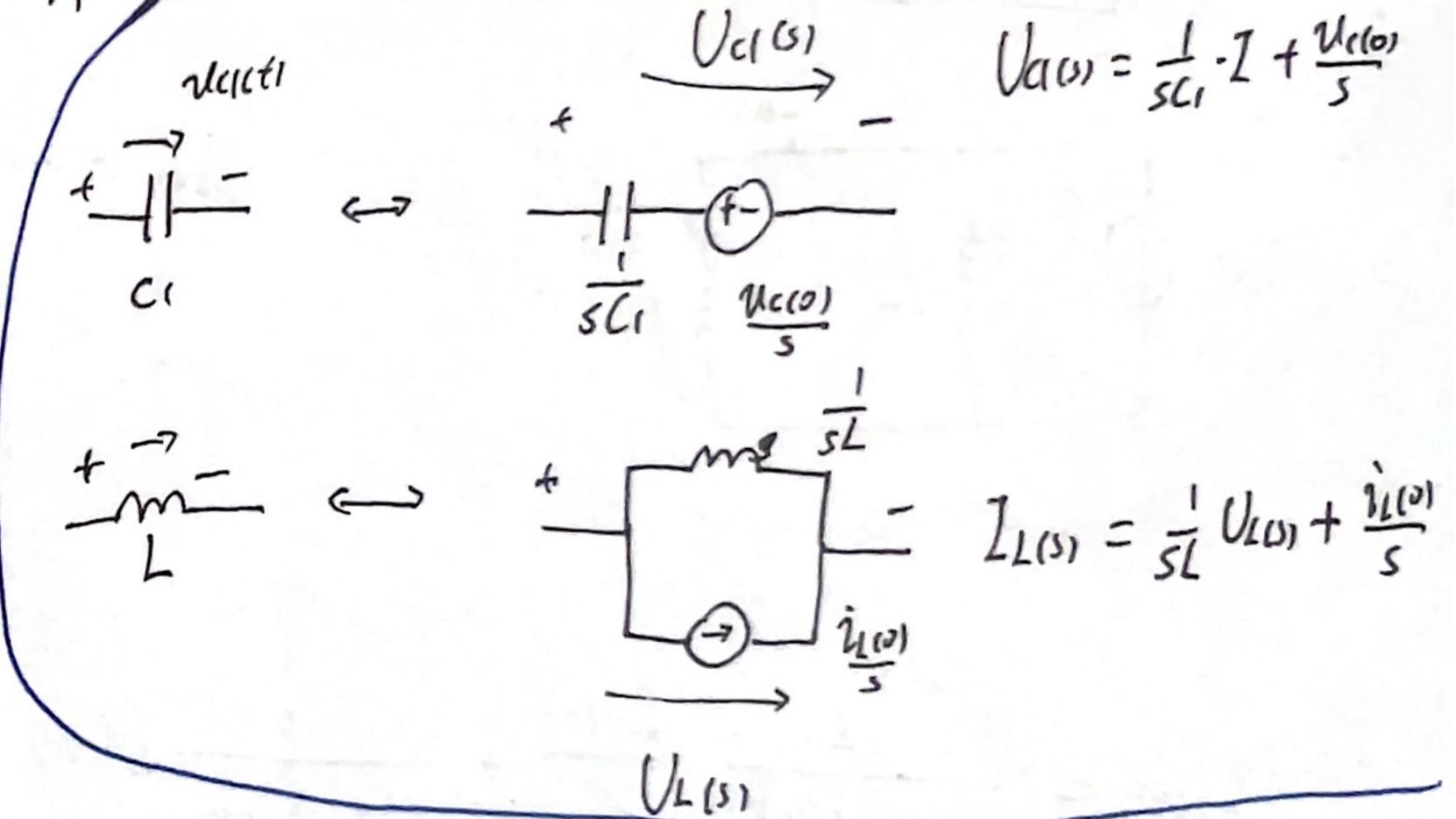
a. 12(t), 12(0), uc1(0), uc2(0), tes



e ingeschungen,

b. 复种别 Laplaceberoich 120





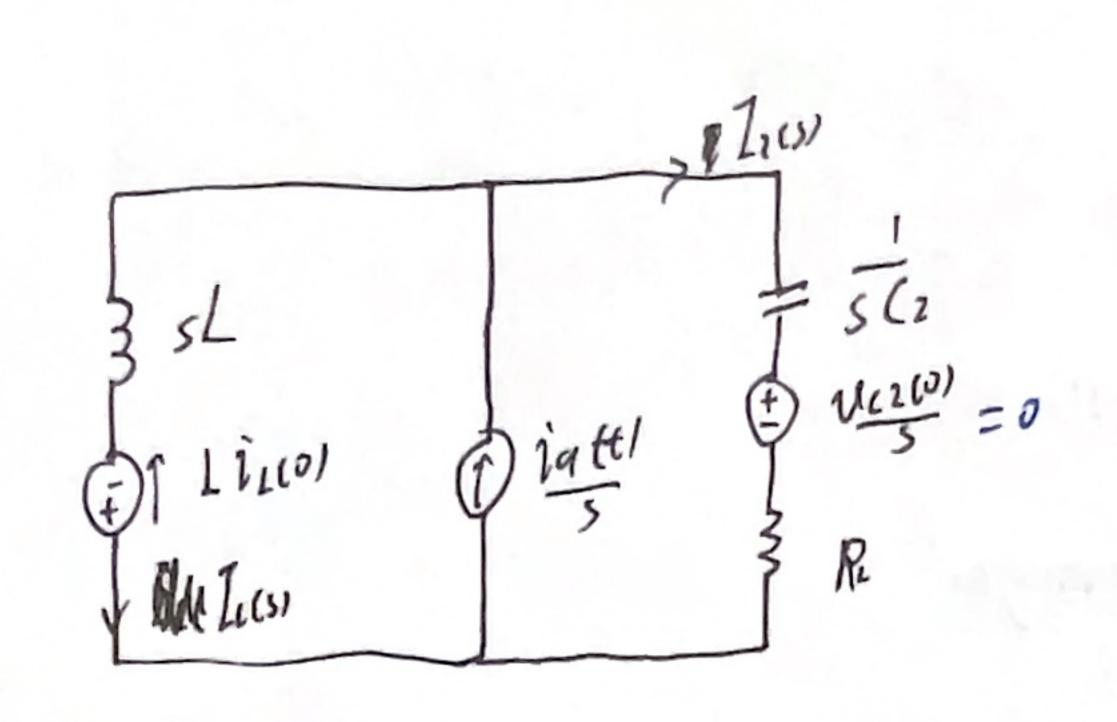
c. Ucitt. t20

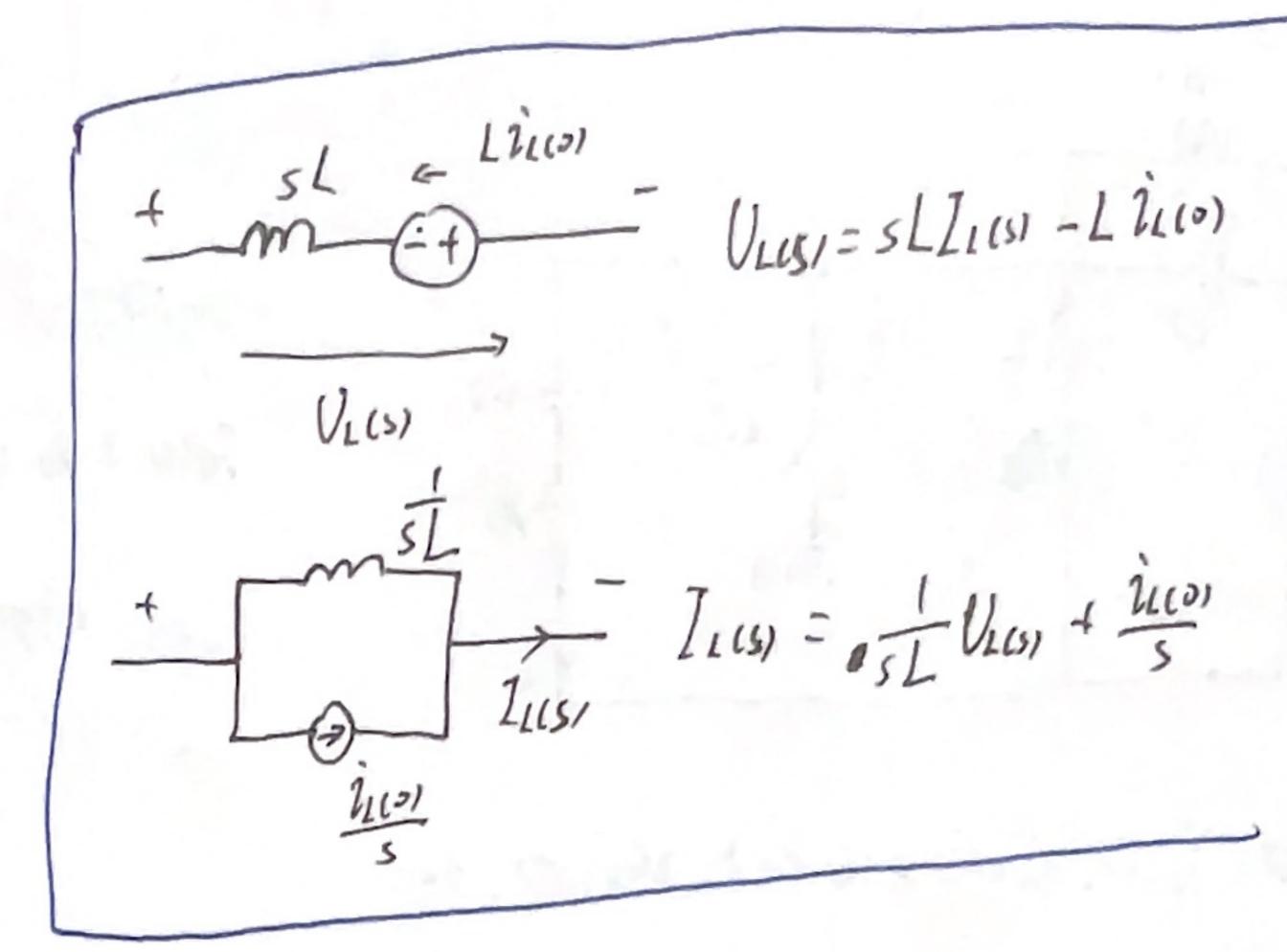
$$V_{C(G)} = V_{R(G)} = \frac{R_1}{R_1 + \frac{1}{5C_1}} \frac{V_{C(G)}}{s} = \frac{SR_1C_1}{1 + sR_1C_1} \frac{V_{C(G)}}{s} = \frac{R_1C_1}{1 + sR_1C_1} \frac{V_{C(G)}}{s}$$

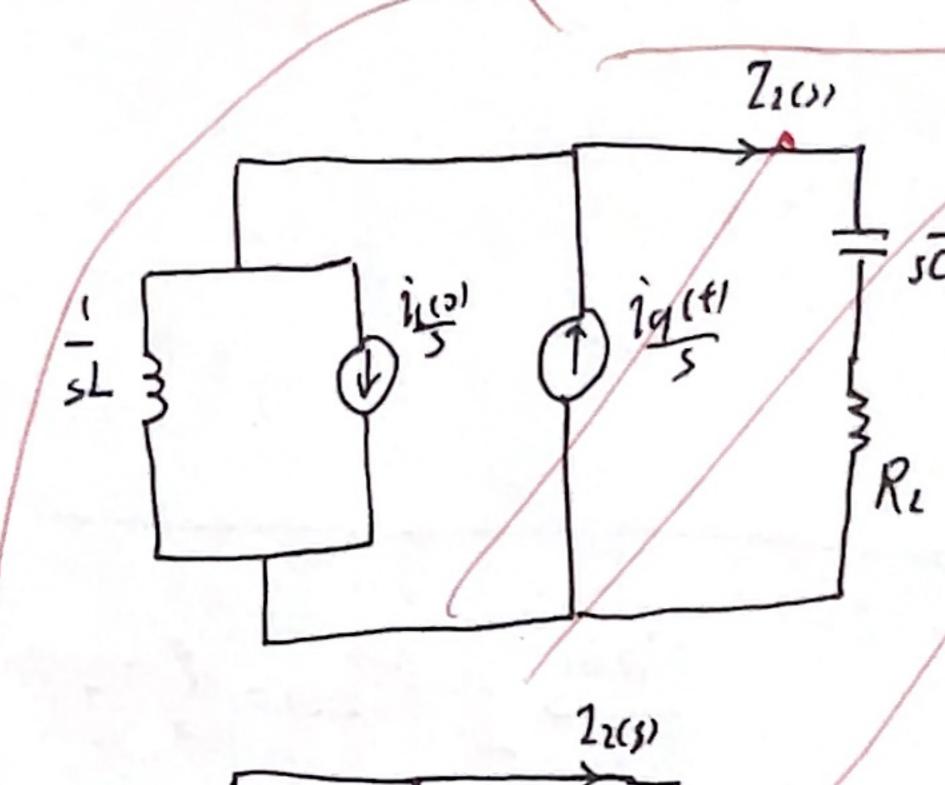
$$= \frac{1}{C_1 + \frac{1}{5C_1}} \frac{V_{C(G)}}{s}$$

$$\frac{1}{5+a}$$
  $e^{-at}$   $\theta(t)$ 

d. izet, R=== = LC=472







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19/0/23

$$I_{2(s)} = \frac{sL}{sL + \frac{j_{q(t)}}{sC_1 + R_2}} - \frac{1}{sL + \frac{j_{q(t)}}{sC_2 + R_2}} = \frac{Liq(t) - Lil(0)}{sL + \frac{j_{q(t)}}{sC_2 + R_2}} = \frac{L}{sL + \frac{j_{q(t)}$$

$$= \frac{s G_{1}L_{2}}{s^{2}L_{2}+s G_{2}R_{1}+1} \left( I_{0} - \frac{U_{0}}{R_{1}} \right) = \frac{s}{s^{2}+s \frac{R_{1}}{L_{0}} + \frac{1}{L_{0}}} \left( I_{0} - \frac{U_{0}}{R_{1}} \right) = \frac{s}{s^{2}+s \frac{1}{L_{1}} + \frac{1}{L_{0}}} \left( I_{0} - \frac{U_{0}}{R_{1}} \right)$$

$$= \frac{s}{(s+\frac{1}{2\tau})^{2}} (7o - \frac{U_{0}}{R_{0}})$$

$$\frac{1}{s+\frac{1}{2\tau}} - \frac{1}{2\tau} \frac{1}{(s+\frac{1}{2\tau})^{2}} = e^{-\frac{1}{2\tau}t} - \frac{1}{2\tau} t e^{-\frac{1}{2\tau}t}$$

$$\frac{1}{s+\frac{1}{2\tau}} - \frac{1}{2\tau} \frac{1}{(s+\frac{1}{2\tau})^{2}} = e^{-\frac{1}{2\tau}t} - \frac{1}{2\tau} t e^{-\frac{1}{2\tau}t}$$

$$\frac{1}{s+\frac{1}{2\tau}} - \frac{1}{2\tau} \frac{1}{(s+\frac{1}{2\tau})^{2}} = e^{-\frac{1}{2\tau}t} - \frac{1}{2\tau} t e^{-\frac{1}{2\tau}t}$$

$$\frac{1}{s+\frac{1}{2\tau}} - \frac{1}{2\tau} \frac{1}{(s+\frac{1}{2\tau})^{2}} = e^{-\frac{1}{2\tau}t} - \frac{1}{2\tau} t e^{-\frac{1}{2\tau}t}$$

$$\frac{1}{s+\frac{1}{2\tau}} - \frac{1}{2\tau} \frac{1}{(s+\frac{1}{2\tau})^{2}} = e^{-\frac{1}{2\tau}t} - \frac{1}{2\tau} t e^{-\frac{1}{2\tau}t}$$

$$\frac{1}{s+\frac{1}{2\tau}} - \frac{1}{2\tau} \frac{1}{(s+\frac{1}{2\tau})^{2}} = e^{-\frac{1}{2\tau}t} - \frac{1}{2\tau} t e^{-\frac{1}{2\tau}t}$$

$$\frac{1}{s+\frac{1}{2\tau}} - \frac{1}{2\tau} \frac{1}{(s+\frac{1}{2\tau})^{2}} = e^{-\frac{1}{2\tau}t} - \frac{1}{2\tau} t e^{-\frac{1}{2\tau}t}$$