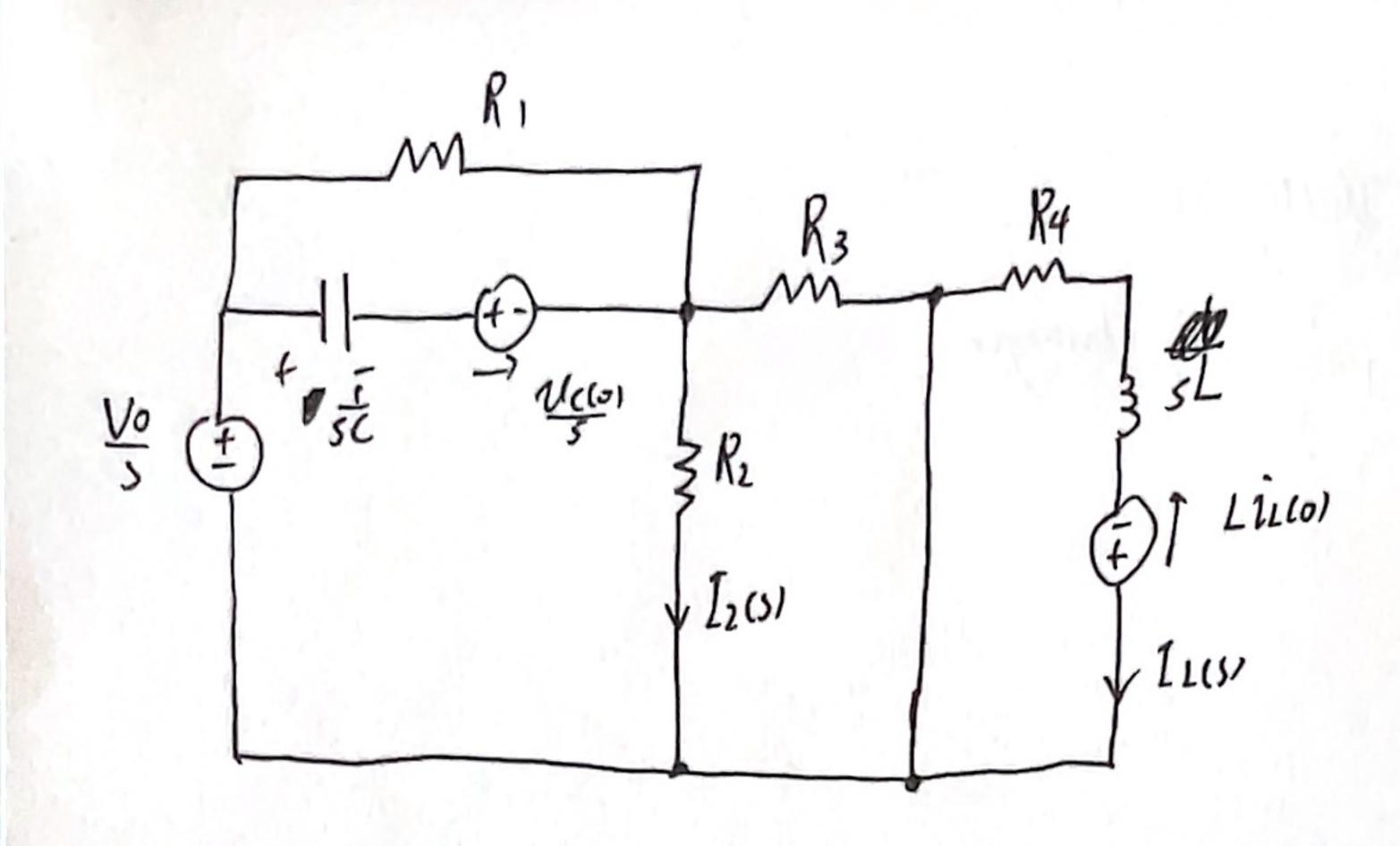


$$\Rightarrow j_2(t) = \frac{U_{11}}{R_2} = \frac{1}{R_2} I R_{11} = \frac{1}{R_2} \frac{V_0}{R_1 + R_{11}} \frac{V_0}{R_1 + R_{11}} \frac{V_0}{R_2} \frac{R_{11}}{R_1 + R_{11}} \frac{V_0}{R_2} \frac{R_{11}}{R_1 + R_{11}} \frac{V_0}{R_2}$$



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$$I_{L(s)}(R_4 + sL) = L i_{L(s)}$$

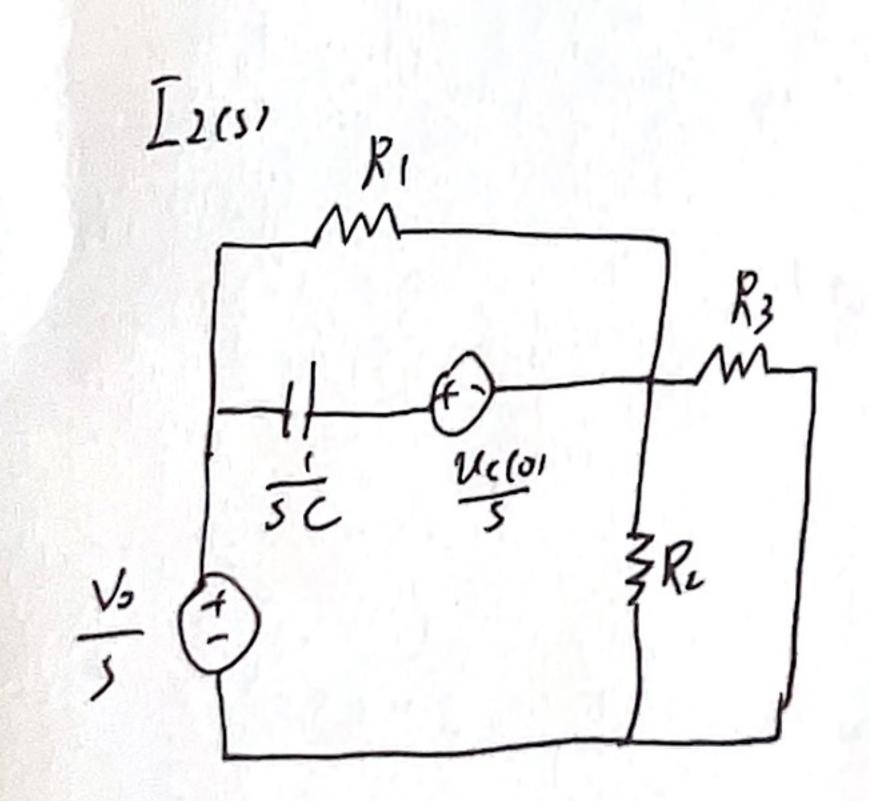
$$I_{L(s)} = \frac{L}{sL + R_4} i_{L(s)} = \frac{1}{s + \frac{R_4}{L}} i_{L(s)}$$

$$\int_{i_{L(s)}}^{R_4} \frac{i_{L(s)}}{sL + R_4} e^{-\frac{R_4}{L}} ds = \frac{R_4}{R_1 + R_{11}} \frac{V_0}{R_3 + R_4} e^{-\frac{R_4}{L}}$$

$$i_{L(s)} = i_{L(s)}(R_4 + sL) = L i_{L(s)}$$

$$\int_{i_{L(s)}}^{R_4} \frac{1}{sL} e^{-\frac{R_4}{L}} ds = \frac{R_4}{R_1 + R_{11}} \frac{V_0}{R_3 + R_4} e^{-\frac{R_4}{L}}$$

$$i_{L(s)} = i_{L(s)}(R_4 + sL) = L i_{L(s)}$$



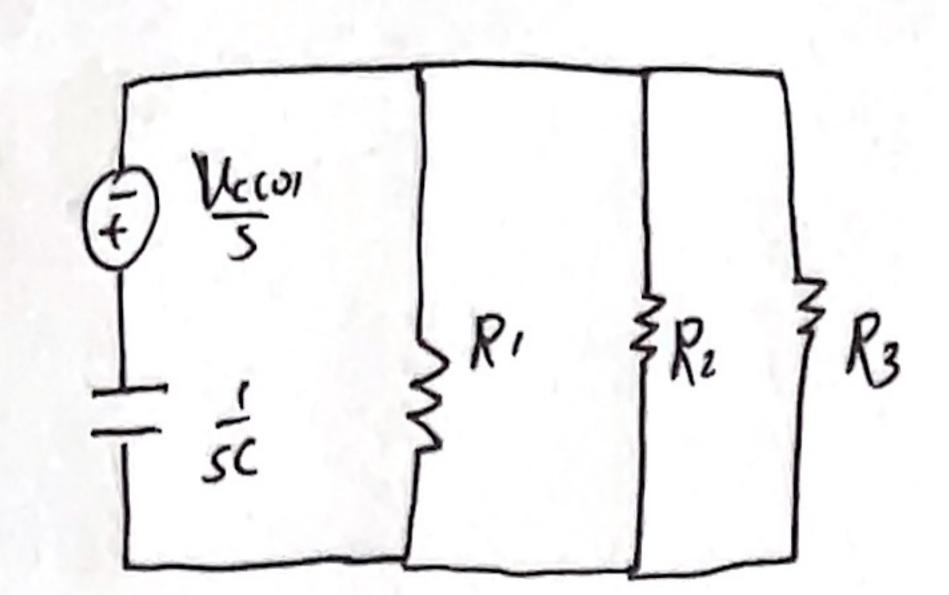
R+R1+P3 = Pg

$$\Rightarrow U_{23} = \frac{\sqrt{c}}{s} \frac{\sqrt{c}}{\sqrt{c} + \sqrt{1+\sqrt{c}}} = \frac{\sqrt{c}}{s} \frac{sC + \frac{1}{R_1}}{sC + \frac{1}{R_2} + \frac{1}{R_3}}$$

$$= \frac{\sqrt{c}}{s} \frac{sC + \frac{1}{R_2}}{sC + \frac{1}{R_2}}$$

$$= \frac{\sqrt{c}}{s} \frac{sC + \frac{1}{R_2}}{sC + \frac{1}{R_2}}$$

$$= \frac{\sqrt{c}}{sC + \frac{1}{R_2} + \frac{1}{R_2}}$$



$$\frac{1}{2} U_{123} = \frac{U_{c(0)}}{\frac{1}{5}} \frac{Y_{c}}{\frac{1}{5} + \frac{1}{5} + \frac{1}{5}} = \frac{U_{c(0)} \cdot C}{\frac{1}{5} + \frac{1}{5}} = \frac{U_{c(0)} \cdot C}{\frac{1}{5}} = \frac{U_{c(0)} \cdot C}{\frac{1}{5}} = \frac{U_{c(0)} \cdot C}{\frac{1}{5}} = \frac{U_{c(0)} \cdot C}{\frac{1}{5}} = \frac{U$$

$$\overline{L_{2CS}}_{1} = \frac{U_{123}}{R_{2}} = \frac{U_{cco}}{R_{2}} = \frac{1}{S + \frac{1}{CR_{9}}} = \frac{V_{0}}{R_{2}} \frac{R_{1}}{R_{1} + R_{11}} = \frac{1}{S + \frac{1}{CR_{9}}}$$

$$\frac{2}{3}I_{2}(s) = I_{2,1}(s) - I_{2,2}(s)$$

$$= \frac{V_0}{R_1} \frac{St \, \overline{CR_1}}{S(St \, \overline{CR_9})} - \frac{V_0}{R_2} \frac{R_1}{R_1 + R_{11}} \frac{1}{St \, \overline{CR_9}}$$

$$P2$$

$$\frac{S + \overline{CR_1}}{S(S + \overline{CR_2})} = \frac{A}{S} + \frac{B}{S + \overline{CR_2}}$$

$$\frac{34 \, \overline{CR_1}}{54 \, \overline{CR_9}} = A = \frac{CR_9}{CR_1} = \frac{R_9}{R_1}$$

$$. S + \frac{1}{CR9}, S = -\frac{1}{CR9}$$

$$\frac{S + \overline{CR_i}}{S} = B = \frac{-\overline{CR_g} + \overline{CR_i}}{-\overline{CR_g}} = 1 - \frac{Rg}{Ri}$$

$$\Rightarrow \frac{s + \frac{1}{CR_1}}{S(s + \frac{1}{CR_9})} = \frac{1}{R_1} \frac{R_9}{S} \frac{1}{S} + \left(1 - \frac{R_9}{R_1}\right) \frac{1}{S + \frac{1}{CR_9}}$$

$$\sum_{i=1}^{N} \sum_{k=1}^{N} \left[\frac{R_{g}}{R_{i}} \right]^{i} + \left(1 - \frac{R_{g}}{R_{i}} \right)^{i} = \frac{V_{o}}{R_{i}} \frac{R_{i}}{R_{i} + R_{ii}} \frac{1}{s + cR_{g}}$$

$$\hat{I}_{2}(t) = \frac{V_{o}}{R_{i}} \left[\frac{R_{g}}{R_{i}} + \left(1 - \frac{R_{g}}{R_{i}} \right) e^{-cR_{g}} \right] - \frac{V_{o}}{R_{i}} \frac{R_{i}}{R_{i} + R_{ii}} e^{-cR_{g}} t, t > 0$$

$$= \frac{V_{o}}{R_{i}} \left[\frac{R_{g}}{R_{i}} + \left(1 - \frac{R_{g}}{R_{i}} \right) e^{-cR_{g}} t - \frac{R_{i}}{R_{i} + R_{ii}} e^{-cR_{g}} t \right], t > 0$$

$$= \frac{V_{o}}{R_{i}} \left[\frac{R_{g}}{R_{i}} + \left(1 - \frac{R_{g}}{R_{i}} \right) e^{-cR_{g}} t - \frac{R_{i}}{R_{i} + R_{ii}} e^{-cR_{g}} t \right], t > 0$$