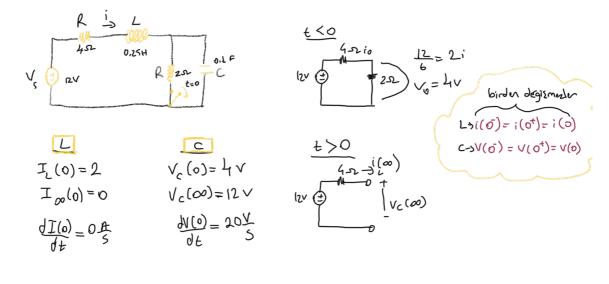
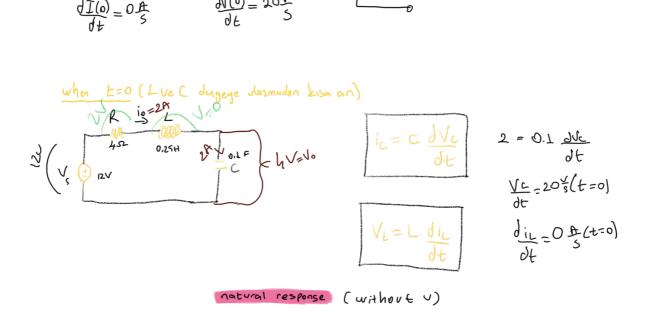
second order circuits

RLC circuits





L-C in series

$$R_{i} + L \cdot \frac{di}{dt} + \frac{1}{C} \int_{0}^{\infty} i(t) dt = 0$$

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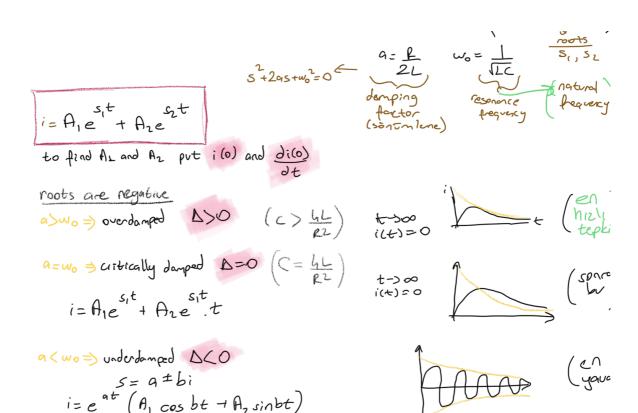
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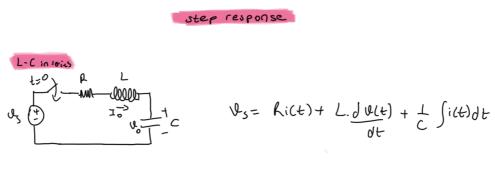
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$$R_{i} + \frac{1}$$



L-C in parallul



$$(1Ct) = C \cdot \frac{\int u(t)}{\int t}$$

$$u'' + \underbrace{L} u' + \underbrace{u'} = \underbrace{U_s}$$

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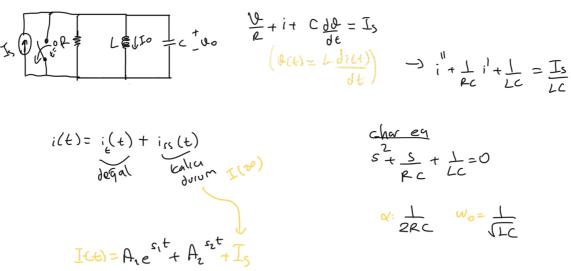
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$$(1Ct) = C \cdot \frac{\int u(t)}{\int t}$$

$$(1Ct) = C$$

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L-C in parally



$$S + \frac{S}{RC} + \frac{1}{LC} = 0$$

$$V: \frac{1}{2RC} \quad W_0 = \frac{1}{LC}$$