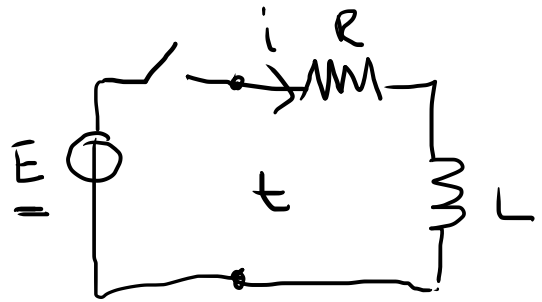
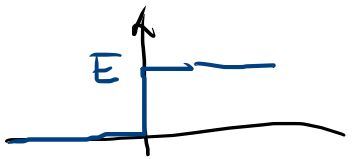


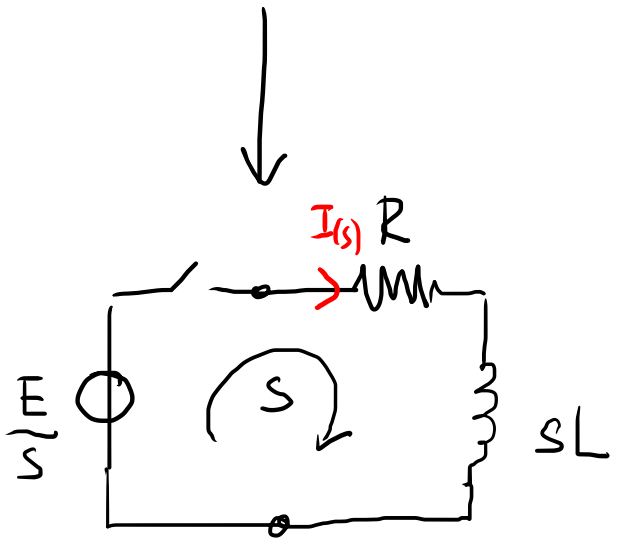


$$\Rightarrow E \cdot \frac{1}{s}$$

$$C \rightsquigarrow \frac{1}{sC}$$

$$v(t) = L \cdot \frac{di(t)}{dt} \Rightarrow V(s) = L\,s\,I(s)$$

sL



$$\frac{E}{s} = I\,R + I \cdot sL = I\,(R + sL)$$

$$I(s) = \frac{E}{s} \cdot \frac{1}{(R+sL)} =$$

$$\frac{1}{s+a} \overset{t}{\rightsquigarrow} e^{-at}$$

$$I(s) = \frac{E}{s}\,\frac{1}{(R+sL)} = \left(\frac{E}{s\,L}\right)\frac{1}{\left(\frac{R}{L}+s\right)} = \frac{E}{L}\cdot\frac{1}{s\left(s+\frac{R}{L}\right)}$$

$$\frac{R}{L} \rightarrow a$$

$$\underbrace{\frac{1}{s(s+a)}} \quad \rightleftharpoons \quad \frac{1}{a}\left(1-e^{-at}\right)$$

$$i(t) = \frac{E}{L}\,\frac{1}{\frac{R}{L}}\cdot\left(1-e^{-\frac{R}{L}\cdot t}\right) = \frac{E}{R}\left(\text{——}\right)$$