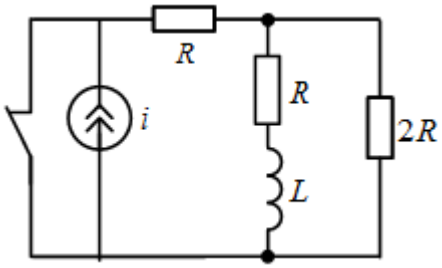
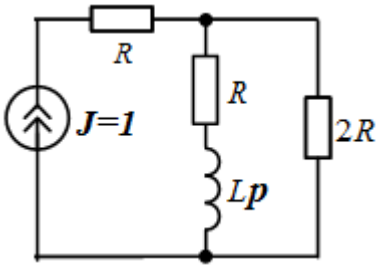
Найти ток индуктивности





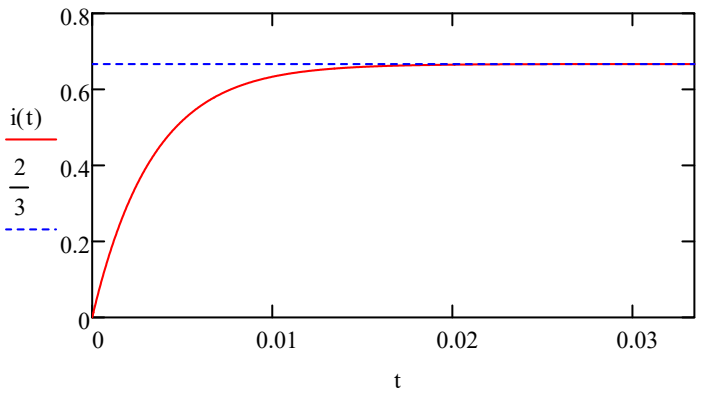
$J := 1$ $L := 0.1$ $R := 10$

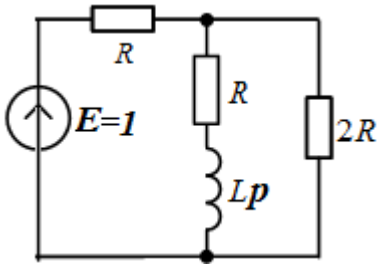
$$I(p) := \frac{2 \cdot R}{3 \cdot R + L \cdot p} \qquad I(p) = \frac{2 \cdot R}{3 \cdot R} \cdot \left(\frac{1}{1 + p \cdot \frac{L}{3 \cdot R}} \right)$$

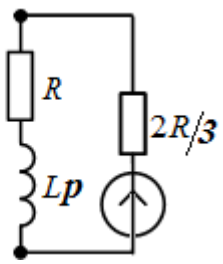
$$w(t) := \frac{2 \cdot R}{L} \cdot e^{\frac{-3 \cdot R}{L} \cdot t} \qquad \tau := \frac{L}{R \cdot 3} = 3.333 \times 10^{-3}$$

$$i(t) := \int_0^t w(t - \tau)\, d\tau \qquad \frac{2 \cdot R}{L} = 200$$

$t := 0, 0.01 \cdot \tau .. 10 \cdot \tau$







$E := 1$

$$W(p) := \frac{E \cdot 2}{3} \cdot \frac{1}{\left(R + \frac{2}{3} \cdot R + L \cdot p \right)} \qquad w(t) := \frac{E \cdot 2}{3 \cdot L} \cdot e^{\frac{-R \cdot 5}{L \cdot 3} \cdot t}$$

$$w(t) := \frac{E \cdot 2}{3 \cdot L} \cdot e^{\frac{-R \cdot 5}{L \cdot 3} \cdot t} \qquad \tau := \frac{L \cdot 3}{R \cdot 5} = 6 \times 10^{-3}$$

$$i(t) := \int_0^t w(t - \tau)\, d\tau \qquad \frac{2 \cdot R}{L} = 200 \qquad t := 0, 0.01 \cdot \tau .. 10 \cdot \tau$$