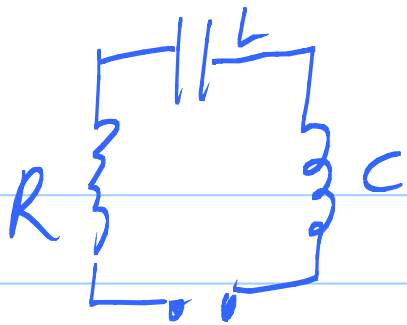


240, 4 S,



$$v(t) = u(t-0) - u(t-2)$$

p. 238, ex. 4. $L \frac{dI}{dt} + RI + \frac{1}{C} Q = v(t)$

$$Q = \int_0^t I(\tau) d\tau, \quad \mathcal{L}[Q] = \mathcal{L}\left[\int_0^t I(\tau) d\tau\right]$$

$$Q(0) = 0 \quad \checkmark \quad = \frac{1}{s} \mathcal{I}(s)$$

$$L(s \mathcal{I}(s)) + R \mathcal{I}(s) + \frac{1}{C} \frac{1}{s} \mathcal{I}(s) = \frac{1}{s} - \frac{e^{-2s}}{s}$$