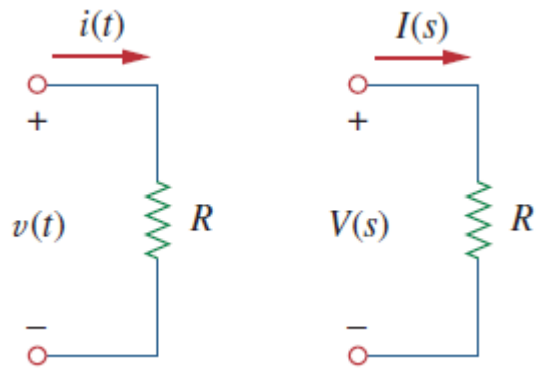
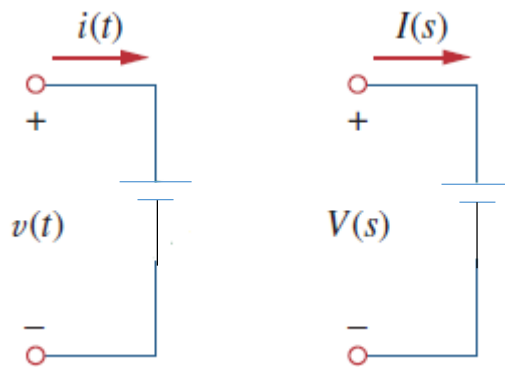


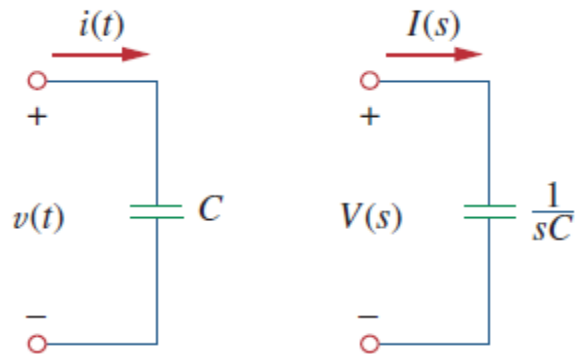
Time-domain and s-domain representations of elements in circuit.



$$V(s) = R \int_0^{\infty} e^{-st} i(t) dt = RI(s)$$



$$V(s) = \varepsilon \int_0^{\infty} e^{-st} dt = \frac{\varepsilon}{s}$$



$$V(s) = \frac{I(s)}{sC} + \frac{V(0)}{s}$$