

Nombre: _____

Sección: _____

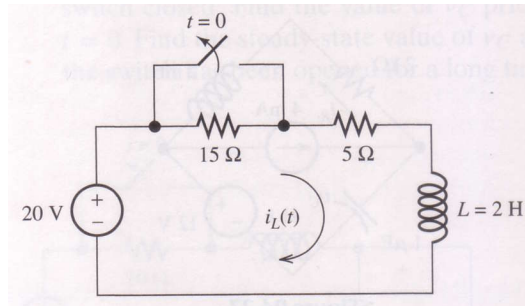


Figure 1: First order circuit with an inductor

P1 Determine an expression for the current $i_L(t)$ for $t > 0$ and draw a sketch of the function to scale versus time in the transient region.

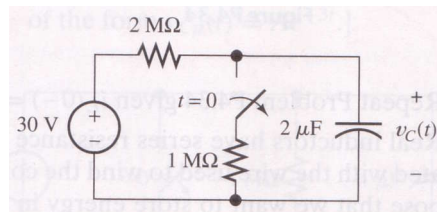


Figure 2: First order circuit with a capacitor

P2 Determine an expression for the voltage $v_C(t)$ for $t > 0$ and draw a sketch of the function to scale versus time in the transient region.

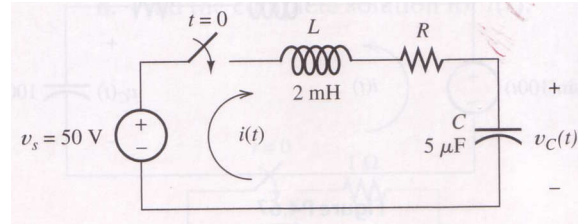


Figure 3: Second order circuit

P3 Determine an expression for the voltage $v_C(t)$ for $t > 0$ and draw a sketch of the function to scale versus time in the transient region for $R = 80 \, \Omega$ and $20 \, \Omega$.