

EEE 225 - Engineering Mathematics I
(Differential Equations)
Homework 9

12th Dec, 2022

1. Suppose for the circuit in Figure 1, $I_{dc} = 24$ mA, $R = 400$ Ω , $L = 25$ mH, and $C = 25$ nF. There is no energy stored in the circuit when the switch opens at $t = 0$. Find $v(t)$ by using the Laplace transform.

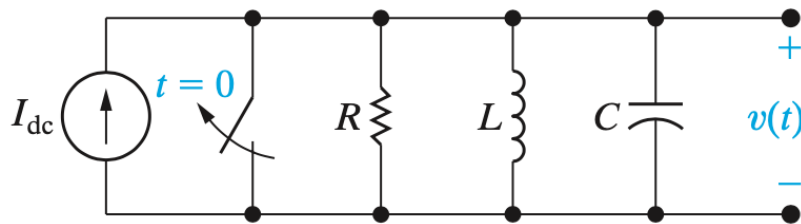


Figure 1: A parallel RLC circuit.