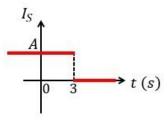
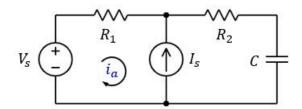
The current source I_s changes from A to 0 at t=3 s, as shown on the right. For t<3 s, you may assume the system has reached steady state. The current i_a is a mesh current.



- (a) Find $i_a(3^- s)$.
- (b) Find $i_a(t)$ for t > 3 s. Write the equation.



R1: 1Ω R2: 2Ω

Vs: 2 V A: 6 A

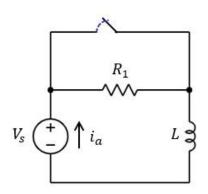
C: 2 pF

Q2

For t < 0 s, the switch is open, and you may assume the system has reached steady state. The switch closes at time t = 0 s and opens again at time t = 4 s.

(You can leave your answer written as a function of e)

- (a) Find $i_a(2 s)$.
- (b) Find $i_a(7 s)$.



Vs: 4 V R1: 2 Ω L: 4 H