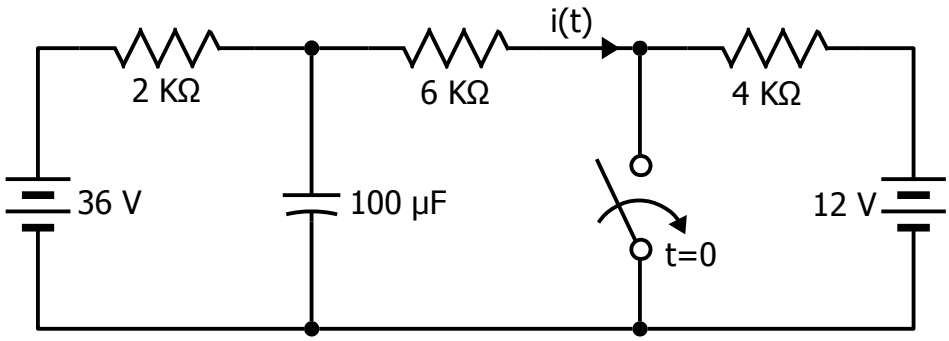
EE3 Fall 2020
Homework Problem 6



This problem is all about i(t).
a. What is $i(0^-)$?
b. What is $i(0^+)$?
c. What is $i(\infty)$?
d. What is i(t), t>0?

The circuit has been in this conditon for a long time.

This problem can be solved without using a differential equation, though you may do so this way if you wish. Solving it without using a differential equation is done by pulling together a few ideas and bringing them to bear on the problem. That means using the answers to the first 3 parts of this problem, plus the judicious use of a Thévenin equivalent, plus the third slide of Lecture 4 in Week 4 of CCLE.