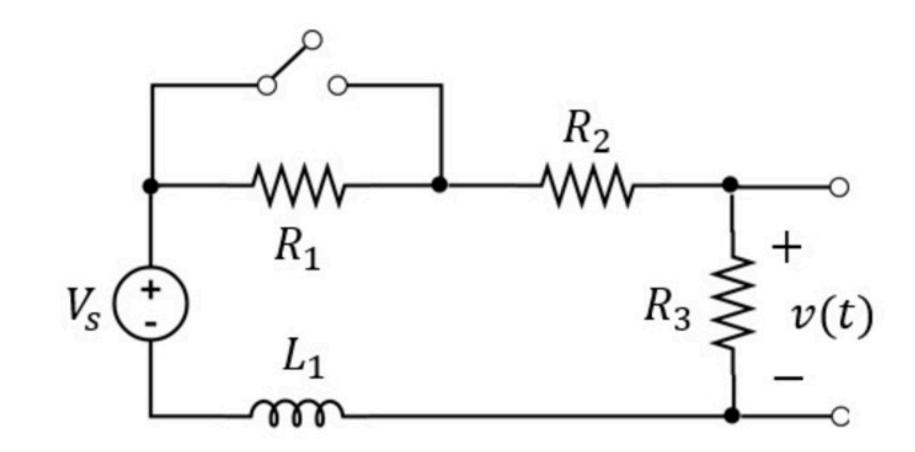
First order circuits 007

Problem has been graded.

The switch closes at time t=0 and we measure

$$v(t) = 24 - 12e^{-t/2 \mu s} V$$
 for $t > 0$

Find the values of R_1 , R_2 , and L_1 .



Given Variables:

Vs : 48 V R3 : 12 kohm

Calculate the following:

R1 (ohm):

24000

R2 (ohm):

12000

L1 (H):

0.048