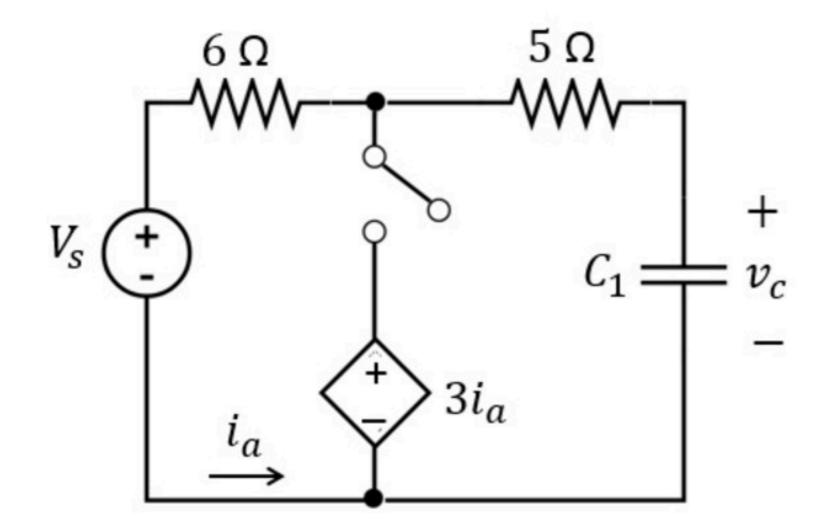
First order circuits 003

Problem has been graded.

The switch has been open for a long time before it closes at time t=0.

Find the capacitor voltage $v_c = A + B \cdot e^{-t/\tau}$ for t > 0.



Given Variables:

Vs : 15 V C1 : 0.1 nF

Calculate the following:

A (V):

-15

B (V):

30

tau (ns):

0.5