Capacitors Inductors 001

Problem has been graded.

You are given a capacitor with a capacitance C_1 . At time t=0, the voltage across this capacitor is V_o .

If a constant current I_1 flows through the capacitor, how long will the capacitor take to charge up to a charge of 10 nC?

Given Variables:

C1:8 nF

Vo : 1 V

11:2 mA

Calculate the following:

t (us):