

RC Circuit: Application (6)



In the RC circuit shown, both switches are initially open and the capacitor is discharged.

- (a) Close switch S_1 and find the currents I_1 and I_2 immediately afterwards.
- (b) Find the currents I_1, I_2 and the charge Q on the capacitor a very long time later.
- (c) Now close switch S_2 also and find the currents I_1 and I_2 immediately afterwards.
- (d) Find the currents I_1, I_2 and the charge Q on the capacitor a very long time later.

