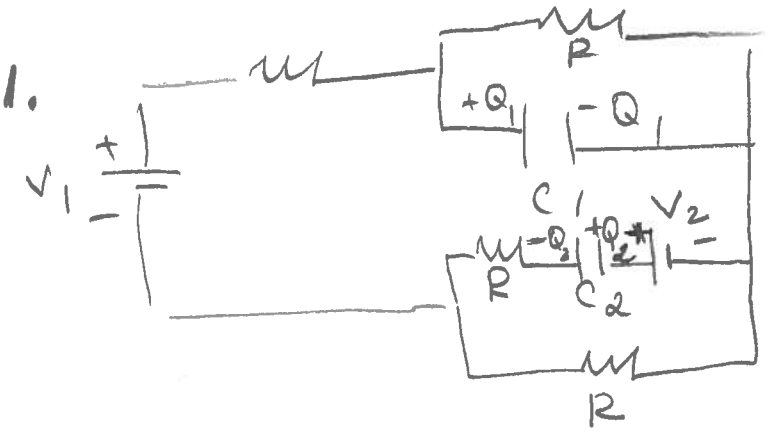
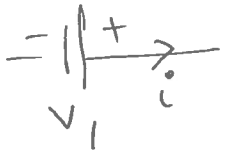
Answers Exam 2 2017

1.



$$i = \frac{V_1}{3R}\,; \quad Q_1 = \frac{C_1 V_1}{3}\,; \quad Q_2 = C_2\left(V_2 + \frac{V_1}{3}\right)$$

2. $$i = \frac{V_1 - V_2}{R_1 + R_3 + R_4}$$



3. $$V(2A) - V(0) = \frac{Q}{104\pi A \varepsilon_0}$$

4. $$i = \frac{V\,2\pi W}{\rho_1 \ln\frac{b}{a} + \rho_2 \ln\frac{t}{b}}$$