

$$C = \frac{Q}{V} = \frac{1}{8.99 * 10^9 \frac{Nm^2}{C}} * R \quad (1)$$

$$C = \frac{1}{8.99 * 10^9 \frac{Nm^2}{C}} * .1m \quad (2)$$

$$C = 1.1 * 10^{-11}F \quad (3)$$

$$Q = C * V \quad (4)$$

$$Q = 1.1 * 10^{-11}F * 100000V = 1.1 * 10^{-6}C \quad (5)$$