

c) R_1 and R_2 are now in series

$$\text{Find } R_{eq}: \quad R_{eq} = R_1 + R_2 \\ = (10\Omega) + (10\Omega)$$

$$R_{eq} = 20\Omega$$

$$\text{Find } I_{eq}: \quad V_{eq} = I_{eq} \cdot R_{eq} \\ (12V) = I_{eq} \cdot (20\Omega)$$

$$I_{eq} = .6A = I_2$$

$$\text{Find } V_2: \quad V_2 = I_2 \cdot R_2 \\ = (.6A)(10\Omega)$$

$$V_2 = 6V$$

$$\text{Find } Q: \quad C = \frac{Q}{V} \quad (140\mu F) = \frac{Q}{6V}$$

$$Q = 840\mu C$$