

1. Two capacitors, $C_1 = 25.0 \mu\text{F}$ and $C_2 = 5.00 \mu\text{F}$, are connected in parallel and charged with a 100-V power supply. (a) Draw a circuit diagram and calculate the total energy stored in the two capacitors. (b) **What If?** What potential difference would be required across the same two capacitors connected in series in order that the combination stores the same amount of energy as in (a)? Draw a circuit diagram of this circuit.

$$U = \frac{1}{2}C(\Delta V)^2$$

The circuit diagram is shown at the right.



$$(a) \quad C_p = C_1 + C_2 = 25.0 \mu\text{F} + 5.00 \mu\text{F} = 30.0 \mu\text{F}$$

$$U = \frac{1}{2}(30.0 \times 10^{-6})(100)^2 = \boxed{0.150 \text{ J}}$$

$$(b) \quad C_s = \left(\frac{1}{C_1} + \frac{1}{C_2} \right)^{-1} = \left(\frac{1}{25.0 \mu\text{F}} + \frac{1}{5.00 \mu\text{F}} \right)^{-1} = 4.17 \mu\text{F}$$

$$U = \frac{1}{2}C(\Delta V)^2$$

$$\Delta V = \sqrt{\frac{2U}{C}} = \sqrt{\frac{2(0.150)}{4.17 \times 10^{-6}}} = \boxed{268 \text{ V}}$$

2. Two capacitors, $C_1 = 5.00 \mu\text{F}$ and $C_2 = 12.0 \mu\text{F}$, are connected in parallel, and the resulting combination is connected to a 9.00-V battery. (a) What is the equivalent capacitance of the combination? What are (b) the potential difference across each capacitor and (c) the charge stored on each capacitor?

- (a) Capacitors in parallel add. Thus, the equivalent capacitor has a value of

$$C_{\text{eq}} = C_1 + C_2 = 5.00 \mu\text{F} + 12.0 \mu\text{F} = \boxed{17.0 \mu\text{F}}$$

- (b) The potential difference across each branch is the same and equal to the voltage of the battery.

$$\Delta V = \boxed{9.00 \text{ V}}$$

$$(c) \quad Q_1 = C_1 \Delta V = (5.00 \mu\text{F})(9.00 \text{ V}) = \boxed{45.0 \mu\text{C}}$$

$$\text{and } Q_2 = C_2 \Delta V = (12.0 \mu\text{F})(9.00 \text{ V}) = \boxed{108 \mu\text{C}}$$

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Xiaolong Qi



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