Discussion Question 5B

### P212, Week 5
Analysis of Capacitor Networks

You're ready to analyze a circuit without any help! A battery of voltage V_0 is again hooked up to a network of 5 capacitors, but in a different arrangement. You are asked four questions:

1. What is the voltage V_A at the point A?

2. What is the voltage V_B at the point B?

3. What is the charge Q_2 on capacitor C_2?

4. What is the energy U_5 stored in capacitor C_5?
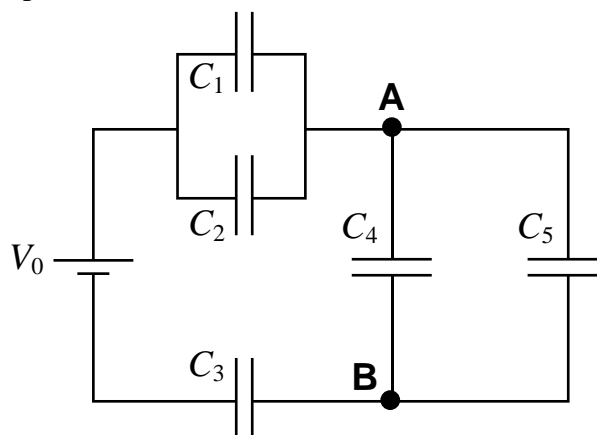
$V_0 = 12$ V
$C_1 = 5$ μF
$C_2 = 8$ μF
$C_3 = 15$ μF
$C_4 = 3$ μF
$C_5 = 10$ μF

Remember, the voltages V_A and V_B must be determined *relative to ground* …