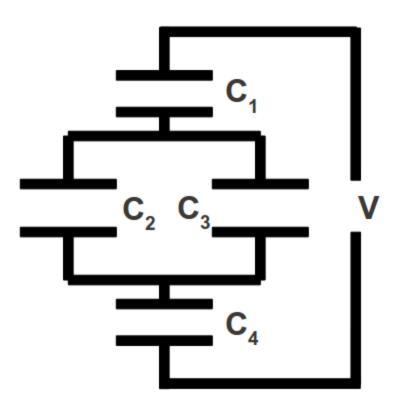
General Physics - E&M (PHY 1308) Lecture

Name: Rules for the Quiz: You are given 5 minutes at the beginning to look over the quiz quietly and jot some notes on a 3x5-inch notecard. Use this time to think about how to attack the quiz problem(s) You are given 10 minutes in the middle to discuss the quiz with your teammates. Use this time to develop strategies across the group for attacking the problem(s). You are allowed to keep notes from this discussion on the SAME 3x5-inch notecard. You then have 15 minutes at the end to work individually (NO MORE DISCUSSION) to solve the problem(s). Use your notes on the 3x5-inch card to help you attack the problem(s) You are allowed to use a calculator Your grade will be determined from the weighted-average of your group and not from your individual performance. The highest grade will be weighted the most, and the lowest the least. Low grades will drag the average down, so it is in your best interest to collaborate during the discussion part of this quiz. All members of your team get the same grade, determined from that weighted average.	Quiz005 SteveSekula, 30 September 2010 (created 30 September 2010)
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Consider the following arrangement of capacitors:



In the above, $C_1=0.050\mu\mathrm{F}$, $C_2=0.010\mu\mathrm{F}$, $C_3=0.040\mu\mathrm{F}$, $C_4=0.050\mu\mathrm{F}$, and $V=100.0\mathrm{V}$.

- (a) Determine the charge on each capacitor
- (b) Determine the voltage across each capacitor