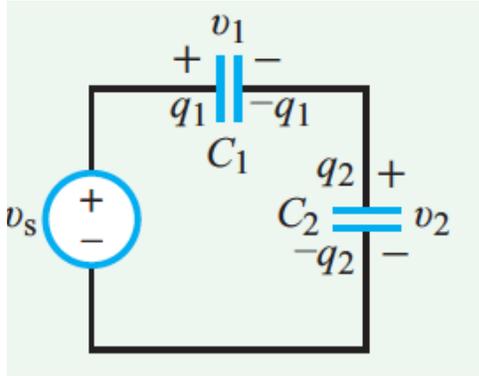


**Concept Question 5-12:** Two capacitors are connected in series between terminals  $(a, b)$  in a certain circuit with capacitor 1 next to terminal  $a$  and capacitor 2 next to terminal  $b$ . How does the magnitude and polarity of charge  $q_1$  on the plate (of capacitor 1) near terminal  $a$  compare with charge  $q_2$  on the plate (of capacitor 2) near terminal  $b$ ?



$$q_1 = q_2.$$