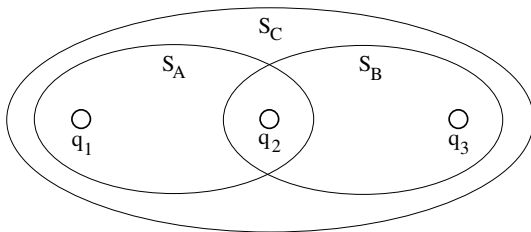


Gaussian surface problem (6)



The electric fluxes through the Gaussian surfaces S_A , S_B , and S_C are $\Phi_E^{(A)} = 4C/\epsilon_0$, $\Phi_E^{(B)} = 1C/\epsilon_0$, and $\Phi_E^{(C)} = 2C/\epsilon_0$, respectively.



Find the electric charges q_1 , q_2 , and q_3 .