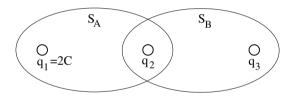
Gaussian surface problem (2)



The electric fluxes through the Gaussian surfaces S_A and S_B are $\Phi_E^{(A)}=1C/\epsilon_0$ and $\Phi_E^{(B)}=3C/\epsilon_0$, respectively.



Find the electric charges q_2 and q_3 .