

## Charged Conductor Problem (3)



A point charge  $q_p = -7\mu\text{C}$  is positioned at the center of a conducting spherical shell with a charge  $q_s = +4\mu\text{C}$  on it.

- Find the direction (inward/outward) of the electric field at the points  $A$  and  $B$ .
- Find the charge  $q_s^{int}$  on the inner surface and the charge  $q_s^{ext}$  on the outer surface of the shell.

