

Solutions

Each answer shows the steps, then the **result**.

2.1

- zero

2.2

- on its outer surface

2.3

- perpendicular to the surface

3.1 B

3.2 A

3.3

(a)

- zero

(b)

- on the outer surface

(c)

- any component along the surface would push the surface charges until it vanished, so at equilibrium only the perpendicular component remains