In crystals of cesium chloride, cesium ions Cs^+ form eight corners of a cube ad a chlorine ion Cl^- is at the cube's center. The edge length is 40 nm. The Cs^+ ions are short one electron and the Cl^- ion has one additional electron.

A. What is the magnitude of the net electrostatic force exerted on the Cl^- ion?

B. If one of the Cs^+ ions is missing, the crystal has a defect. What is the net electrostatic force exerted on the Cl^- ion?