
Force on a point charge above a conducting plane. A point charge Q is situated in air at a height h above a grounded conducting plane. Relative to the plane, the electric force on this charge is

- (A) always attractive (plane attracts the charge).
- (B) always repulsive (plane repels the charge).
- (C) attractive for Q positive and repulsive for Q negative.
- (D) attractive for Q negative and repulsive for Q positive.
- (E) always zero.

Solution: (A)

Answer: (A)