Four charges are situated in the corner of a square ABCD if a charge q is kept in the center of this square, then what will be the force on charge$q$?

Solution:

From the symmetry of square follows that magnitude of electric field in the center of square is zero. So the force on charge q is zero too.
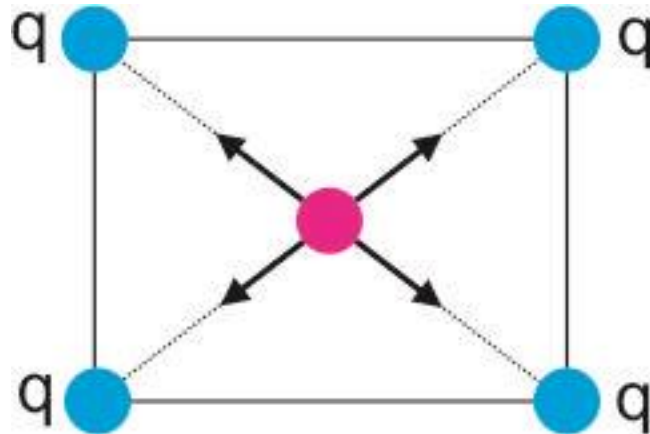
Answers: force on charge q is equal to zero.