

Problem 1) Two point charges $q_1 = 2 \times 10^{-3} \text{ C}$ and $q_2 = -3 \times 10^{-6} \text{ C}$ are separated by a distance $x = 10 \text{ cm}$. Find the magnitude and nature of the force between the two charges.

- 1) 5400 N, attractive
- 2) 540 N, repulsive
- 3) 540 N, attractive
- 4) 5400 N, repulsive

Ans - 1