

Q2: A particle of charge 3.00 μ C is separated by 0.120 m from a particle of charge $-1.50 \,\mu\text{C}$. (a) What is the magnitude of the electrostatic force between them? (b) What must their separation be to reduce that force by an order of magnitude?

 $(k = 9 \times 10^9 \text{ N.m/c}^2)$

9 0.120 m 9

 $|x_{10}^{9} \text{ N.m/c}^{2}|$ $|F_{12}| = |F_{21}| = |F|$ $|F_{21}| = |F|$ $|F_{12}| = |F_{21}| = |F|$ $|F_{12}| = |F|$ $|F_{13}| = |F|$ $|F_{12}| = |F|$ $|F_{13}| = |F|$ $|F_{$

= +2.8125 M/

=0.2581 N