## Answer on Question #71805 – Physics – Electromagnetism

How far apart must the point changes of 75nC be to have force of 1.00 N between them **Solution:** 

$$F = \frac{1}{4\pi\varepsilon_0} \frac{q_1 q_2}{r^2} \to r = \frac{q}{\sqrt{4\pi\varepsilon_0 F}} = \frac{75 \times 10^{-9}}{\sqrt{4\pi \cdot 8.85 \times 10^{-12} \cdot 1.00}} = 7.11 \times 10^{-3} m$$

**Answer:**  $7.11 \times 10^{-3} m$ .

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