PAG. 1068 N68

$$Q = 3.2 \times 10^{-3} \text{ C}$$

$$R = 2.5 \text{ cm}$$

$$E = \frac{Q}{4\pi\epsilon_0 R^3} R => R = \frac{4\pi\epsilon_0 R^3 E}{Q} = \frac{4\pi\epsilon_0 R^3 E}{Q} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)} = \frac{4\pi\epsilon_0 R^3 E}{\chi^3 (0.025 \times 9.1 \times 10^3)}$$

$$d_{A0} = 5,0 \text{ cm}$$

$$d_{OB} = 1,5 \text{ cm}$$

$$Q = 3,2 \times 10^{-3} \text{ C}$$

$$\frac{Q}{AB^{2}} = \frac{1}{100} \frac{Q}{R^{3}} OB$$

$$Q = \frac{Q \times OB \times AB^{2}}{R^{3}} = \frac{3.2 \times 10^{-9} \times 1.5 \times (3.5)^{2}}{(2.5)^{3}} C = \frac{3.8 \times 10^{-9}}{(3.5)^{3}}$$

$$\frac{Q}{R^{3}} = \frac{100}{R^{3}} OB$$

$$\frac{69}{4}$$

$$\lambda = 8,1 \times 10^{-7} \frac{C}{m}$$

$$d = 28 \text{ cm}$$

$$= -1,86 \times 10^{-6} \frac{C}{m^2}$$

$$F = ma$$

$$a = 9E$$

$$= \frac{5.1 \times 10^{-10} \times 2.03 \times 10^{5}}{7.5 \times 10^{-3}}$$

$$\sim 1.4 \times 10^{-2} M_{2}$$

$$E_{\rho} = \frac{\lambda}{2\pi\epsilon_{0}} + \frac{101}{2\epsilon_{0}} =$$

$$= \frac{1}{\epsilon_{0}} \left(\frac{\lambda}{11_{0}} + \frac{101}{2}\right) =$$

$$F = ma$$

$$= \frac{1}{8,854 \times 10^{-12}} \left( \frac{8,1 \times 10^{-7}}{11 \times 923} + \frac{1,86 \times 10^{-6}}{2} \right) \frac{N}{C}$$

$$= \frac{5,1 \times 10^{-10} \times 2,09 \times 10^{5}}{7,5 \times 10^{-3}} \frac{M}{N^{2}}$$

$$= \frac{10^{6}}{8,854} \left( \frac{0,81}{11 \times 923} + \frac{1,86}{2} \right) \frac{N}{C} = \frac{10^{6}}{2,1 \times 10^{-2}} \frac{1,86 \times 10^{-6}}{2} = \frac{10^{6}}{2,1 \times 10^{-5}} \frac{1,86 \times 10^{-6}}{2} = \frac{10^{6}}{2,1 \times 10^{-5}} \frac{1,86 \times 10^{-6}}{2} = \frac{10^{6}}{2,1 \times 10^{-5}} = \frac{1,86 \times 10^{-6}}{2} = \frac{1,86 \times$$

$$R_1 = 11,4 \text{ cm}$$
  
 $d = 4,2 \text{ cm}$   
 $9 = 4,2 \times 10^8 \text{ C}$   
 $Q = 3,1 \times 10^{-6} \frac{\text{C}}{\text{m}^3}$ 

$$Q_{\mathfrak{L}} = (\sqrt{\mathfrak{L}} - \sqrt{\mathfrak{L}})_{\mathfrak{C}} = \frac{4}{3}\pi \, \mathfrak{C}(\mathfrak{R}^3 - \mathbb{R}^3)$$