

Chapter 15

Electric Forces and Electric Fields

Problem Solutions

15.1 F_x

Since these are like charges (both positive), the force is F_x and F_y .

15.2 Particle A exerts a force toward the right on particle B . By Newton's third law, particle B will then exert a force toward the left back on particle A . The ratio of the final magnitude of the force to the original magnitude of the force is

$$F_x = \left(8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2} \right) \frac{6.00 \times 10^{-9} \text{ C} \cdot 5.00 \times 10^{-9} \text{ C}}{0.300 \text{ m}^2}$$

$$= 3.00 \times 10^{-6} \text{ N}$$

so

$$F_y = \left(8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2} \right) \frac{3.00 \times 10^{-9} \text{ C} \cdot 5.00 \times 10^{-9} \text{ C}}{0.100 \text{ m}^2} = 1.35 \times 10^{-5} \text{ N}$$

$$F_x = \sqrt{F_x^2 + F_y^2} = 1.38 \times 10^{-5} \text{ N}$$

The final vector force that B exerts on A is $\boxed{1.57 \mu\text{N} \text{ directed to the left}}$.

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International Handbook of Research in History, Philosophy and Science Teaching Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical, curricular and pedagogical issues in the teaching of science and mathematics. It is contributed to by 130 researchers from 30 countries; it provides a logically structured, fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally. The first handbook to cover the field, it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject. The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education, attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects. There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science; this handbook is uniquely positioned as a locus for the discussion. The handbook features sections on pedagogical, theoretical, national and biographical research, setting the literature of each tradition in its historical context. It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical, curricular and pedagogical questions that face teachers and administrators. Science educators will be grateful for this unique encyclopaedic handbook. Gerald Holton, Physics Department, Harvard University. This handbook gathers the fruits of over thirty years' research by a growing international and cosmopolitan community. Fabio Bevilacqua, Physics Department, University of Pavia **Functions of a**

Complex Variable Edgar Jerome Townsend, 1915

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