



- a) Find the electric field at the 5 uC charge due to the other four charges  
b) find the net force on the 5 uC charge

$$c = \sqrt{(20\text{m})^2 + (20\text{m})^2}$$

$$c = \sqrt{0.8\text{m}^2} = .2828\text{m}$$

$$\vec{E}_T = \vec{E}_1 + \vec{E}_2 + (\vec{E}_3 + \vec{E}_4) \quad |\vec{E}| = k \frac{|q|}{r^2}$$

cancel

$$|\vec{E}_1| = \frac{8.99 \cdot 10^9 \text{ N} \cdot \cancel{\text{C}^2}}{\cancel{\text{C}^2}} \frac{4 \cdot 10^{-6} \cancel{\text{C}}}{(.2828\text{m})^2} = 4.495 \cdot 10^5 \text{ N/C}$$

$$E_x = 4.495 \cdot 10^5 \text{ N/C} \cos 45^\circ = 3.178 \cdot 10^5 \text{ N/C}$$

$$E_y = 4.495 \cdot 10^5 \text{ N/C} \sin 45^\circ = 3.178 \cdot 10^5 \text{ N/C}$$

# Electric Charges And Currents Word Problems Answers

**Hugh Chisholm**



## **Electric Charges And Currents Word Problems Answers:**

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## Reviewing **Electric Charges And Currents Word Problems Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Electric Charges And Currents Word Problems Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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