

Physics

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(Chapter - 2) (Electrostatic Potential and Capacitance)

(Class - XII)

Question 2.1:

Two charges $5 \times 10^{-8} \text{ C}$ and $-3 \times 10^{-8} \text{ C}$ are located 16 cm apart. At what point(s) on the line joining the two charges is the electric potential zero? Take the potential at infinity to be zero.

Answer 2.1:

There are two charges,

$$q_1 = 5 \times 10^{-8} \text{ C}$$

$$q_2 = -3 \times 10^{-8} \text{ C}$$

Distance between the two charges,

$$d = 16 \text{ cm} = 0.16 \text{ m}$$

Consider a point P on the line joining the two charges, as shown in the given figure.

r = Distance of point P from charge q_1

Let the electric potential (V) at point P be zero.

Potential at point P is the sum of potentials caused by charges q_1 and q_2 respectively.

$$\therefore V = \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{r} + \frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{(d-r)} \quad \text{--- (1)}$$

Where,

ϵ_0 = Permittivity of free space

For $V = 0$, equation (1) reduces to

$$0 = \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{r} + \frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{(d-r)} \Rightarrow \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{r} = -\frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{(d-r)}$$

$$\Rightarrow \frac{q_1}{r} = -\frac{q_2}{(d-r)} \Rightarrow \frac{5 \times 10^{-8}}{r} = -\frac{(-3 \times 10^{-8})}{(0.16 - r)} \Rightarrow 5(0.16 - r) = 3r$$

$$\Rightarrow 0.8 = 8r \Rightarrow r = 0.1 \text{ m} = 10 \text{ cm}$$

Therefore, the potential is zero at a distance of 10 cm from the positive charge between the charges.

Suppose point P is outside the system of two charges at a distance s from the negative charge, where potential is zero, as shown in the following figure.



For this arrangement, potential is given by,

$$V = \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{s} + \frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{(s-d)} \quad \text{--- (2)}$$

Where,

ϵ_0 = Permittivity of free space

For $V = 0$, equation (2) reduces to

$$0 = \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{s} + \frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{(s-d)} \Rightarrow \frac{1}{4\pi\epsilon_0} \cdot \frac{q_1}{s} = -\frac{1}{4\pi\epsilon_0} \cdot \frac{q_2}{(s-d)} \Rightarrow \frac{q_1}{s} = -\frac{q_2}{(s-d)}$$

$$\Rightarrow \frac{5 \times 10^{-8}}{s} = -\frac{(-3 \times 10^{-8})}{(s-0.16)} \Rightarrow 5(s-0.16) = 3s$$

$$\Rightarrow 0.8 = 2s \Rightarrow s = 0.4 \text{ m} = 40 \text{ cm}$$

Therefore, the potential is zero at a distance of 40 cm from the positive charge outside the system of charges.

Ap Physics Chapter 2

Lei Shi



Ap Physics Chapter 2:

Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-09-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs

Williams Gynecology Study Guide, Second Edition Claudia Werner, Elysia Moschos, William Griffith, Victor Beshay, David Rahn, Debra Richardson, Barbara Hoffman, 2012-07-06 IF YOU WANT TO UPDATE THE INFORMATION ON YOUR TITLE SHEET THEN YOU MUST UPDATE COPY IN THE PRODUCT INFORMATION COPY FIELD COPY IN THE TIPSHEET COPY FIELD DOES NOT APPEAR ON TITLE SHEETS The brand new companion review book to the second edition of Williams Gynecology the hugely successful new gynecology reference Market Audience Ob Gyns 52 000 US Ob Gyn residents 4 900 US About the Book Williams Gynecology Second Edition Study Guide is an evidence based review book derived directly from the content of Williams Gynecology Second Edition 4 12 to assess comprehension and retention of material covered in the text The table of contents mirrors that of the larger book The study guide s 2000 evidence based questions combines straight Q A with clinical vignettes testing readers on both their factual knowledge and decision making skills The questions are followed by an answer key which provides the correct answer and cites the page number in the text where detailed discussion of the topic can be found for further study Owing to this unique feature the study guide is integral to the full use of the text and will be available packaged with the text They will publish simultaneously The first edition of Williams Gynecology has been a terrific success reaching its lifetime sales goal within its first year of publication It is a full color evidence based resource and the only book on the market to combine a medical text with a procedural atlas The study guide will feature a 2 c design to tie it visually to the text Key Selling Features Over 2000 evidence based multiple choice questions thoroughly covering every major topic in current clinical gynecology including General Gynecology REI and Menopause Pelvic Medicine and Reconstructive Surgery Gynecologic Oncology and Gynecologic Surgery Questions are derived straight from the popular new gynecology text Williams Gynecology Answer key cites text page numbers for in depth discussion and further reading 2 c design Review Q A derived directly from the best new gynecology reference Williams Gynecology About the Author Barbara L Hoffman MD is

Assistant Professor Obstetrics and Gynecology University of Texas Southwestern Medical Center Dallas Dr Hoffman is soon to be promoted to Associate Professor She is currently leading Williams Gynecology Second Edition and will prepare the review questions as the larger text is completed The New York Times Index ,1924 **The Book News Monthly** ,1903

The Publishers' Circular and Booksellers' Record of British and Foreign Literature ,1898 **Book News** ,1903

Power ,1918 **Power and The Engineer** ,1918 **Williams Gynecology, Third Edition, Study Guide** Claudia L.

Werner,Elysia Moschos,William F. Griffith,Victor E. Beshay,David D. Rahn,Debra L. Richardson,Barbara L.

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