

ANSWERS

GAUSS' LAW Multiple Choice



Instructions: Show work for any questions in red.

1. When a piece of paper is held with one face perpendicular to a uniform electric field the flux through it is $25 \text{ N} \cdot \text{m}^2/\text{C}$. When the paper is turned 25° with respect to the field the flux through it is:

- A) 0
- B) $12 \text{ N} \cdot \text{m}^2/\text{C}$
- C) $21 \text{ N} \cdot \text{m}^2/\text{C}$
- D) $23 \text{ N} \cdot \text{m}^2/\text{C}$
- E) $25 \text{ N} \cdot \text{m}^2/\text{C}$

2. The flux of the electric field $(24 \text{ N/C})\hat{i} + (30 \text{ N/C})\hat{j} + (16 \text{ N/C})\hat{k}$ through a 2.0 m^2 portion of the yz plane is:

- A) $32 \text{ N} \cdot \text{m}^2/\text{C}$
- B) $34 \text{ N} \cdot \text{m}^2/\text{C}$
- C) $42 \text{ N} \cdot \text{m}^2/\text{C}$
- D) $48 \text{ N} \cdot \text{m}^2/\text{C}$
- E) $60 \text{ N} \cdot \text{m}^2/\text{C}$

3. Consider Gauss law: $\oint \vec{E} \cdot d\vec{A} = q / \epsilon_0$. Which of the following is true?

- A) $\vec{E}$ must be the electric field due to the enclosed charge
- B) If $q = 0$ then $\vec{E} = 0$ everywhere on the Gaussian surface
- C) If the three particles inside have charges of $+q$, $+q$ and $-2q$, then the integral is zero
- D) On the surface $\vec{E}$ is everywhere parallel to $d\vec{A}$
- E) If a charge is placed outside the surface, then it cannot affect $\vec{E}$ on the at any point on the surface

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Yi-Tong Ma

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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