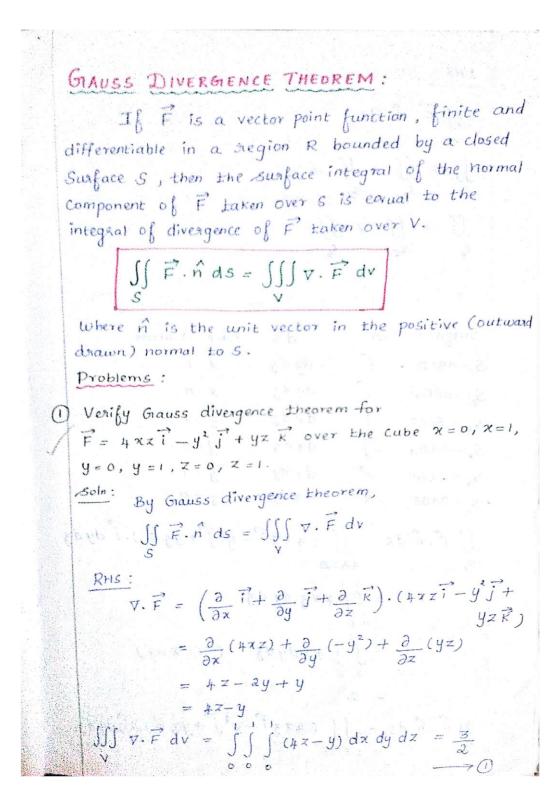




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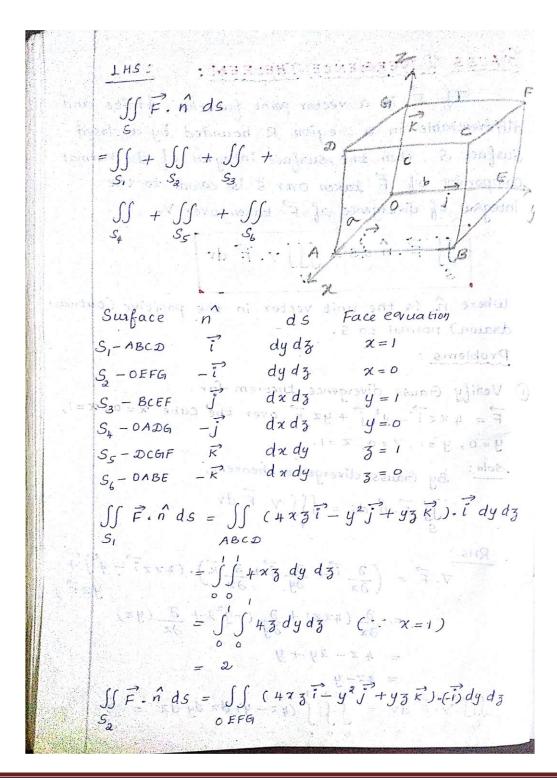
Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai Accredited by NAAC-UGC with 'A++' Grade (Cycle III) & Description of the Accredited by NBA (B.E - CSE, EEE, ECE, Mech & Description of the COIMBATORE-641 035, TAMIL NADU







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$$\begin{aligned} &= \int_{0}^{\infty} \left(-4x_{3} \right) \, dy \, dy = 0 \quad (\cdots x = 0) \\ &= \int_{0}^{\infty} \left(-4x_{3} \overrightarrow{i} - y^{2} \overrightarrow{j} + y_{3} \overrightarrow{k} \right) \cdot \overrightarrow{j} \, dx \, dy \\ &= \int_{0}^{\infty} \left(-y^{2} \right) \, dx \, dy \quad (\text{Here } y = 1) \end{aligned}$$

$$= \int_{0}^{\infty} \left(-4x_{3} \overrightarrow{i} - y^{2} \overrightarrow{j} + y_{3} \overrightarrow{k} \right) \cdot (-\overrightarrow{j}) \, dx \, dy$$

$$= \int_{0}^{\infty} \int_{0}^{\infty} -dx \, dy = \int_{0}^{\infty} \left(-\frac{1}{2} y + y_{3} \overrightarrow{k} \right) \cdot (-\overrightarrow{j}) \, dx \, dy$$

$$= \int_{0}^{\infty} \int_{0}^{\infty} y^{2} \, dx \, dy = \int_{0}^{\infty} y \, dx \, dy \quad (\because z = 0)$$

$$= \int_{0}^{\infty} \left[y \right]_{0}^{\infty} \, dy = \int_{0}^{\infty} y \, dx \, dy \quad (\because z = 0)$$

$$= \int_{0}^{\infty} \left[-y_{3} \right]_{0}^{\infty} \, dx \, dy = 0 \quad (\because z = 0)$$

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