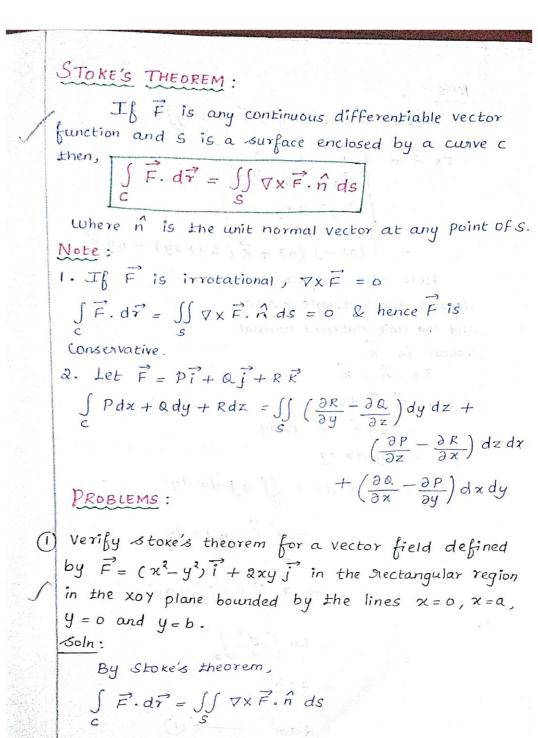




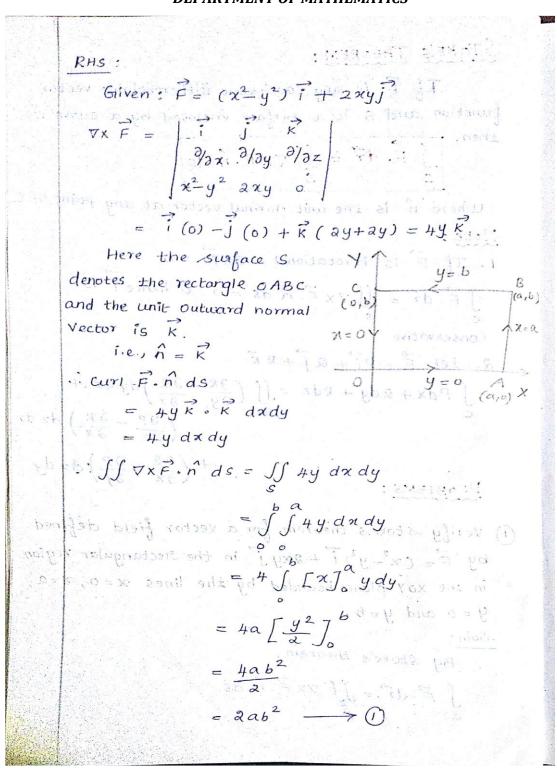
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$$\overrightarrow{F} = (\chi^2 - y^2) \overrightarrow{i} + 2\chi y \overrightarrow{j}$$

$$d\overrightarrow{r} = d\chi \overrightarrow{i} + dy \overrightarrow{j}$$

$$\overrightarrow{F} \cdot d\overrightarrow{r} = (\chi^2 - y^2) d\chi + 2\chi y dy$$

$$\int \overrightarrow{F} \cdot d\overrightarrow{r} = \int [(\chi^2 - y^2) d\chi + 2\chi y dy]$$

$$= \int_{OA} + \int_{AB} + \int_{BC} + \int_{AB} + \int_{AB$$





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