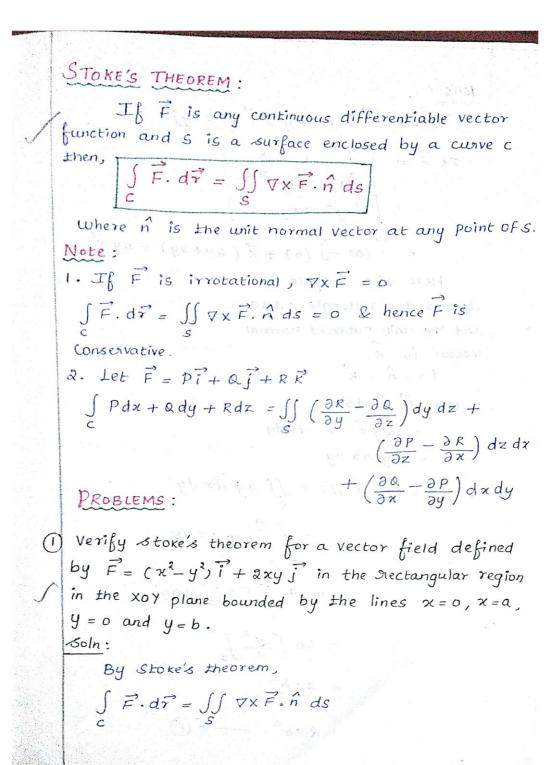




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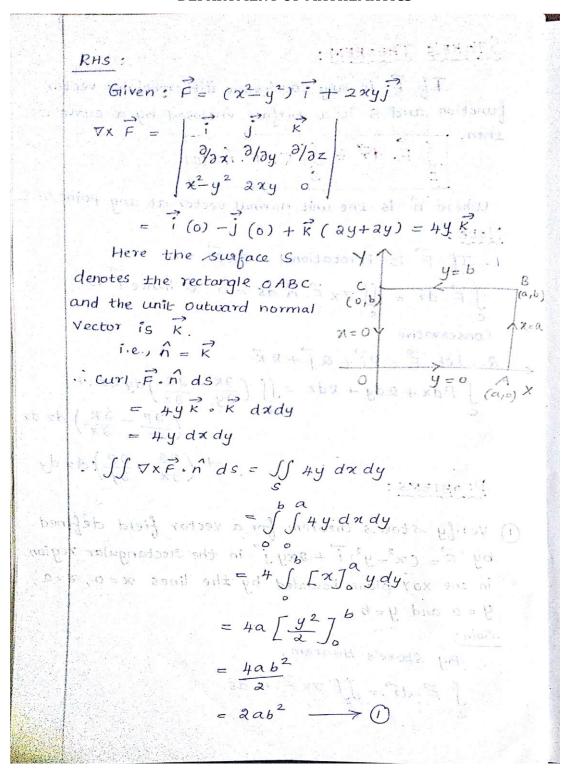
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$$\overrightarrow{F} = (x^2 - y^2) \overrightarrow{i} + 2xy \overrightarrow{j}$$

$$\overrightarrow{dr} = dx \overrightarrow{i} + dy \overrightarrow{j}$$

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

$$\int \overrightarrow{F} \cdot d\overrightarrow{r} = (x^2 - y^2) dx + 2xy dy$$

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

$$= \int_{A} + \int_{BL} + \int_{A} + \int_{A}$$





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