

UNIT : ORDINARY DIFF. EQ.
1. OF 1st ORDER & 1st DEGREE

Page No. 01

Date



* $\frac{dy}{dx} = f(x, y)$ is the 1st degree, 1st order differential Equation.

- (Types of differential eq.)
- ① Variable Seperable type
 - ② Homogeneous eq.
 - ③ Non-Homogeneous eq.
 - ④ Exact diff. eq.
 - ⑤ Linear diff. eq.

* Exact differential Equation:

- A differential eq. of the form $Mdx + Ndy = 0$

$$\begin{aligned} M &\rightarrow M(x, y) \\ N &\rightarrow N(x, y) \end{aligned}$$

is said to be exact if there exist a function $u(x, y)$ such that $Mdx + Ndy = du$. (Total deriv. of u)

- Note: - A necessary & sufficient condition for $Mdx + Ndy = 0$ to be exact is $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$

- Sol. is, $\int_{y=\text{const}} M dx + \int \left(\begin{array}{l} \text{Terms of } N \\ \text{free from } x \end{array} \right) dy = C$

- In Some Case,

$$\int_{x=\text{const}} N dy + \int \left(\begin{array}{l} \text{Terms of } M \text{ free} \\ \text{from } y \end{array} \right) dx = C$$

First Course In Ordinary Differential Eq

BM King



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