

DIFFERENTIAL EQUATIONS

First order first degree Differential Eqn:

$$\frac{dy}{dx} = F(x, y)$$

$$M(x, y) dx + N(x, y) dy = 0$$

(i) variable separable form:

$$\frac{dy}{dx} = F(x, y) \rightarrow f(x) dx = g(y) dy$$

$$\int f(x) dx = \int g(y) dy + c$$

Note - If the given D.E contains the terms like $\cos \pi y$, $\sec(x+y)$, $(Ax+By+C)^2$ etc... can be reduced to variable separable form with substitutions: $xy = v$, $x+y = v$, $Ax+By+C = v$ respectively.

(ii) Homogeneous Differential eqn:

A D.E $\frac{dy}{dx} = F(x, y)$ is said to be homogeneous D.E

$$\text{if } f(kx, ky) = k^n f(x, y)$$

Note - * The D.E $Mdx + Ndy = 0$ is called homogeneous D.E if all terms of M & N of same degree.

* Every homogeneous function of degree '0' can be written as a function of $\frac{y}{x}$ (or) $\frac{x}{y}$ and this substitution is $\frac{y}{x} = v$

(or) $\frac{x}{y} = v$ reduces the given eqn to variable separable form.

(iii) Exact Differential Eqn:

The D.E $Mdx + Ndy = 0$ is said to be exact if

$$\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$$

$$\text{Soln} \rightarrow \int M dx + \int (\text{terms of } N \text{ without } x) dy = c$$

Integrating factor (IF)

For conversion of Non exact to exact.

Note - Any constant multiple of IF is also an IF.

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