

Differential Equation

Where, $f(x, y)$ & $\phi(x, y)$

Are homogeneous functions of x & y , and of the same degree

Then, this type of eq. is called Homogeneous.

This eq. may also be reduced to the form

$$\frac{dy}{dx} = g\left(\frac{x}{y}\right) \quad \text{OR} \quad \frac{dy}{dx} = h\left(\frac{y}{x}\right)$$

It is solved by putting $y = vx$,

Such that y changes to another variable v and the D.E. is transformed to Variable Separable Type.

Note

1. The function $f(x, y)$ is said to be a homogeneous function of degree 'n', if

$$f(tx, ty) = t^n \cdot f(x, y)$$

for any real number $t(\neq 0)$,

8. Equations Reducible To The Homogeneous Form

Consider
$$\frac{dy}{dx} = \frac{a_1x + b_1y + c_1}{a_2x + b_2y + c_2}$$

Case -1 $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ Parallel Lines

Substitute : $a_1x + b_1y = t$

Case -2 $\frac{a_1}{a_2} \neq \frac{b_1}{b_2}$ Intersecting Lines

Substitute : $x = X + h$; $y = Y + k$

Where (h, k) is intersection point of lines

$$a_1x + b_1y + c_1 = 0$$

$$\& \quad a_2x + b_2y + c_2 = 0$$

Case -3 If $a_2 + b_1 = 0$

Method -1 Use method of intersecting lines.

Method -2 Cross multiply & use $xdy + ydx = d(xy)$

9. Linear Differential Equations

A differential equation is said to be linear if :

- ❖ Dependent variable & its differential coefficients occur in the first degree only.
- ❖ And they are never multiplied together.

The nth order Linear Differential Eq. is of the form :

Note

The general solution of a differential equation of nth order contains 'n' & only 'n' independent arbitrary constants.

5. Solution of D.E. by Variable Separable Form

If the differential equation can be expressed as :

$$f(x) dx + g(y) dy = 0$$

Then,

It is said to be Variable Separable Type of Differential Eq.

6. DE Reducible to variable separable

Type-2 : By Substitution Method

$$\frac{dy}{dx} = f(ax + by + c) \quad (b \neq 0)$$

(If $b = 0$ this is directly Variable Separable)

To solve this, Substitute : $t = ax + by + c$

Then the eq. reduces to separable type in the variable t and x which can be solved.

7. Homogeneous Differential Equations

A differential equation of the form

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



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