

# Variation of Parameter Method

Detailed Course on Differential Equation for IIT JAM' 23 - II



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# Homogeneous Differential Equation

## Cauchy's Homogeneous Differential Linear Equations

A linear differential equation of the form

$$x^n \frac{d^n y}{dx^n} + a_1 x^{n-1} \frac{d^{n-1} y}{dx^{n-1}} + \dots + a_{n-1} x \left( \frac{dy}{dx} \right) + a_n y = Q$$

Or  $(x^n D^n + a_1 x^{n-1} D^{n-1} + \dots + a_{n-1} x D + a_n) y = Q$

Where  $a_1, a_2, \dots, a_{n-1}, a_n$  are constants, and  $Q$  is either a constant or function of  $x$  only is called homogeneous linear differential equation.

Put  $x = e^z \Rightarrow z = \log x$ , Let  $D_1 = \frac{d}{dz}$  Then we have,

$$x \frac{dy}{dx} = D_1 y, x^2 \frac{d^2 y}{dx^2} = D_1(D_1 - 1)y, x^3 \frac{d^3 y}{dx^3} = D_1(D_1 - 1)(D_1 - 2)y$$

$$\dots x^n \frac{d^n y}{dx^n} = D_1(D_1 - 1)(D_1 - 2)\dots(D_1 - n + 1)y$$

$$(D_1^n + a_1 D_1^{n-1} + \dots + a_{n-1} D_1 + a_n) y = Q$$

$$(D^n + a_1 D^{n-1} + \dots + a_{n-1} D + a_n) y = Q$$

$$\gamma^2 \frac{d^2y}{dx^2} + \alpha \frac{dy}{dx} - y = 0$$

$$D(D-1)y + Dy - y = 0$$

$$(D^2 - D + D - 1)y = 0$$

$$(D^2 - 1)y = 0$$

$$m^2 - 1 = 0 \Rightarrow m = \pm 1$$

$$y = c_1 e^x + c_2 e^{-x}$$

$$y = c_1 x + c_2 x^{-1}$$

$$dt \quad n = e^z \quad | \quad e^{2z} = n^2$$

$$D = \frac{d}{dx}$$

$$\frac{d^2y}{dx^2} = D(D-1)y$$

$$\frac{dy}{dx} = Dy$$

$$y^2 \frac{d^2y}{dx^2} - 3y \frac{dy}{dx} + 4y = 2e^{2x}$$

$$(D^2 - 4D + 4)y = 2e^{2x}$$

$$(D^2 - 4D + 4)y = 2e^{2x}$$

$$(D^2 - 4D + 4)y = 2e^{2x}$$

$$m^2 - 4m + 4 = 0 \Rightarrow m = 2$$

$$\text{cf } y = (c_1 + c_2 x)e^{2x} \quad P.D.T = \frac{2e^{2x}}{D^2 - 4D + 4} = \frac{2e^{2x}}{2D - 4}$$

$$y = c_1 + c_2 x$$

$$y = (c_1 + c_2 x)e^{2x} + x^2 e^{2x}$$

$$y = (c_1 + c_2 x)e^{2x} + (1 \cdot c_2)^2 x^2$$

$$x+ y = e^z, \quad z = \underline{\ln(x+y)}$$

$$y^2 \frac{d^2y}{dx^2} = D(D-1)$$

$$y \frac{dy}{dx} = Dy$$

$$\gamma^3 \frac{d^3y}{dx^3} + 2\gamma^2 \frac{d^2y}{dx^2} + 2y = 10 \left( x + \frac{1}{x} \right) \quad \left| \begin{array}{l} dx \rightarrow e^z, \quad z = \ln x \\ \gamma^3 \frac{d^3y}{dz^3} = 10(z-1)(y-y') \end{array} \right.$$

$$D(D-1)(y-y') + 2D(D-1)y + 2y = 10(e^z + e^{-z})$$

$$\left[ D^3 - 3D^2 + 2D + 2D - 2D + 2 \right] y = 10(e^z + e^{-z})$$

$$(D^3 - D^2 + 2)y = 10(e^z + e^{-z})$$

$$m^2 - m^2 + 2 = 0$$

$$(m+1)(m-2m+2) = 0$$

$$y = C_1 e^z + C_2 e^{-z} (C_2 \sin z + C_3 \cos z) + 5e^z + 2ze^{-z}$$

$$y = C_1 x^2 + x(C_2 \cos(\ln x) + C_3 \sin(\ln x)) + 5x^2 + 2x \ln x$$

$$m = -1, \quad \frac{2 \pm \sqrt{4-8}}{2}$$

$$m = 1, \quad 1 \pm i$$

$$\tilde{m}(m+1) - 2m(m+1) + 2(m+1)$$

$$\begin{aligned} P_F &= \frac{10e^z}{D^3 - D^2 + 2} + \frac{10e^{-z}}{D^3 - D^2 + 2} \\ &= 5e^z + \frac{10ze^{-z}}{3D^2 - 2D} \end{aligned}$$

Substituting the values of  $x \frac{dy}{dx}$ ,  $x^2 \frac{d^2y}{dx^2}$ ... in above equation and changing independent variable from x to z. So

$$[D_1(D_1 - 1)(D_1 - 2) \dots (D_1 - n + 1) + \dots + a_{n-2}D_1(D_1 - 1) + a_{n-1}D_1 + a_n]y = f(z)$$

Which is of the form linear differential equation with constant coefficients, and hence solve using the methods defined earlier, then replacing z with  $\log x$ , we got the required solution.

**Q1.** Consider the differential equation  $x^2 \frac{d^2 y}{dx^2} + x \frac{dy}{dx} - 4y = 0$  with the boundary condition of  $y(0) = 0$  and  $y(1) = 1$ . The complete solution of differential equation is

$$D(D-1)y + Dy - 4y = 0$$

- (a)  $x^2$
- (b)  $\sin\left(\frac{\pi x}{2}\right)$
- (c)  $e^x \sin\left(\frac{\pi x}{2}\right)$
- (d)  $e^{-x} \sin\left(\frac{\pi x}{2}\right)$

$$\begin{cases} \text{for } n=1, z=1 \\ y \frac{d^2 y}{dz^2} = 5y \\ y \frac{dy}{dz} - 4y \end{cases}$$

$$y = c_1 e^{z^2} + c_2 e^{-z^2}$$

$$y' = 2z c_1 e^{z^2} + 2z c_2 e^{-z^2}$$

$$y'' = 2(c_1 e^{z^2} + c_2 e^{-z^2}) + 4z^2 c_1 e^{z^2} + 4z^2 c_2 e^{-z^2}$$

$$y = c_1 z^2 + c_2 z^{-2}$$

$$y = c_1 z^2$$

$$1 = c_1$$

Q2. The general solution of  $x^2 \frac{d^2y}{dx^2} - 5x \frac{dy}{dx} + 9y = 0$  is  $\ln x = z$   
 $z = 15n$

(a)  $(c_1 + c_2 x)e^{3x}$

(b)  ~~$(c_1 + c_2 \ln x)x^3$~~   $D(D+1)y - 5Dy + 9y = 0$

(c)  $(c_1 + c_2 x)x^3$

(d)  $(c_1 + c_2 \ln x) e^{x^3}$

$(D^2 - 6D + 9)y = 0$

$m^2 - 6m + 9 = 0$

$m = 3, 3$

$y = (c_1 + c_2 z) e^{3z}$

$y = (c_1 + c_2 15n) n^3$

Q3

The general solution of differential equation  
 $4x^2y'' - 8xy' + 9y = 0$  is

- (a)  $c_1e^{5x/2} + c_2e^{-3x/2}$     (b)  $c_1e^{3x/2} + c_2e^{-3x/2}$   
 (c)  $(c_1 + c_2 \log x)x^{3/2}$     (d)  $c_1x^{3/2} + c_2x^{-3/2}$

$$Y = (C_1 + C_2 z) z^{3/2}$$

$$\underline{Y = (C_1 + C_2 z) z^{3/2}}$$

$$dy/dx = z^2, z = 15x$$

$$4D(D+1)y - 8Dy + 9y = 0$$

$$(4D^2 - 12D + 9)y = 0$$

$$4m^2 - 12m + 9 = 0$$

$$(2m - 3)^2 = 0$$

$$m = 3/2, 3/2$$

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- MODERN ALGEBRA

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Q4. If  $\frac{(c_1 + c_2 \ln x)}{x}$  is the general solution of the differential

equation  $x^2 \frac{d^2 y}{dx^2} + kx \frac{dy}{dx} + y = 0, x > 0$  the k equals

- (a) 3  
(b) -3  
(c) 2  
(d) -1

$$(c_1 + c_2 \ln x) x^{-1}$$
$$(c_1 + c_2 x)^{-2}$$
$$(-1)^{-1}$$

$$(D(D-1) + kD^{-1})H = 0$$

$$(D^2 - D + kD + 1)Y = 0$$

$$2 - k + 1 = 0$$
$$k = 3$$

$$\frac{m^2 + (k-1)m + 1 = 0}{1 - (k-1) + 1 = 0}$$

**Q5.** A solution of the differential equation

$$2x^2 \frac{d^2y}{dx^2} + 3x \frac{dy}{dx} - y = 0, x > 0 \text{ that passes through the } \underline{\text{point}} \ (1,1)$$

is

(a)  $y = \frac{1}{x}$

(b)  $y = \frac{1}{x^2}$

(c)  $y = \frac{1}{\sqrt{x}}$

(d)  $y = \frac{1}{x^{3/2}}$

~~Q6.~~ Let  $y(x)$ ,  $x > 0$  be the solution of differential equation

$$x^2 \frac{d^2 y}{dx^2} + 5x \frac{dy}{dx} + 4y = 0$$
 satisfying the conditions

~~$y(1) = 1$  &  $y'(1) = 0$  Then the value of  $e^2 y(e)$  is~~

- (a) 3
- (b) 1
- (c) 2
- (d) -1

$$y = \frac{1 + c_2 \ln x}{x^2}$$

$$y' = \frac{x^2 \frac{c_2}{x} - (1 + c_2 \ln x) \cdot 2x}{x^4}$$

$$0 = c_2 - 2 \Rightarrow c_2 = 2$$

$$(D(D_1) + 5D + 4) Y = 0$$
$$x^2 + 4x + 4 = 0$$

$$m = -2, -2$$

$$Y = (C_1 + C_2 x^{-2}) e^{-2x}$$

$$Y = (C_1 + C_2 \ln x) \frac{1}{x^2}$$

$$1 = C_1$$

$$Y = \frac{(1 + 2 \ln x)}{x^2}$$

$$Y(e) = \frac{1 + 2 \ln e}{e^2}$$

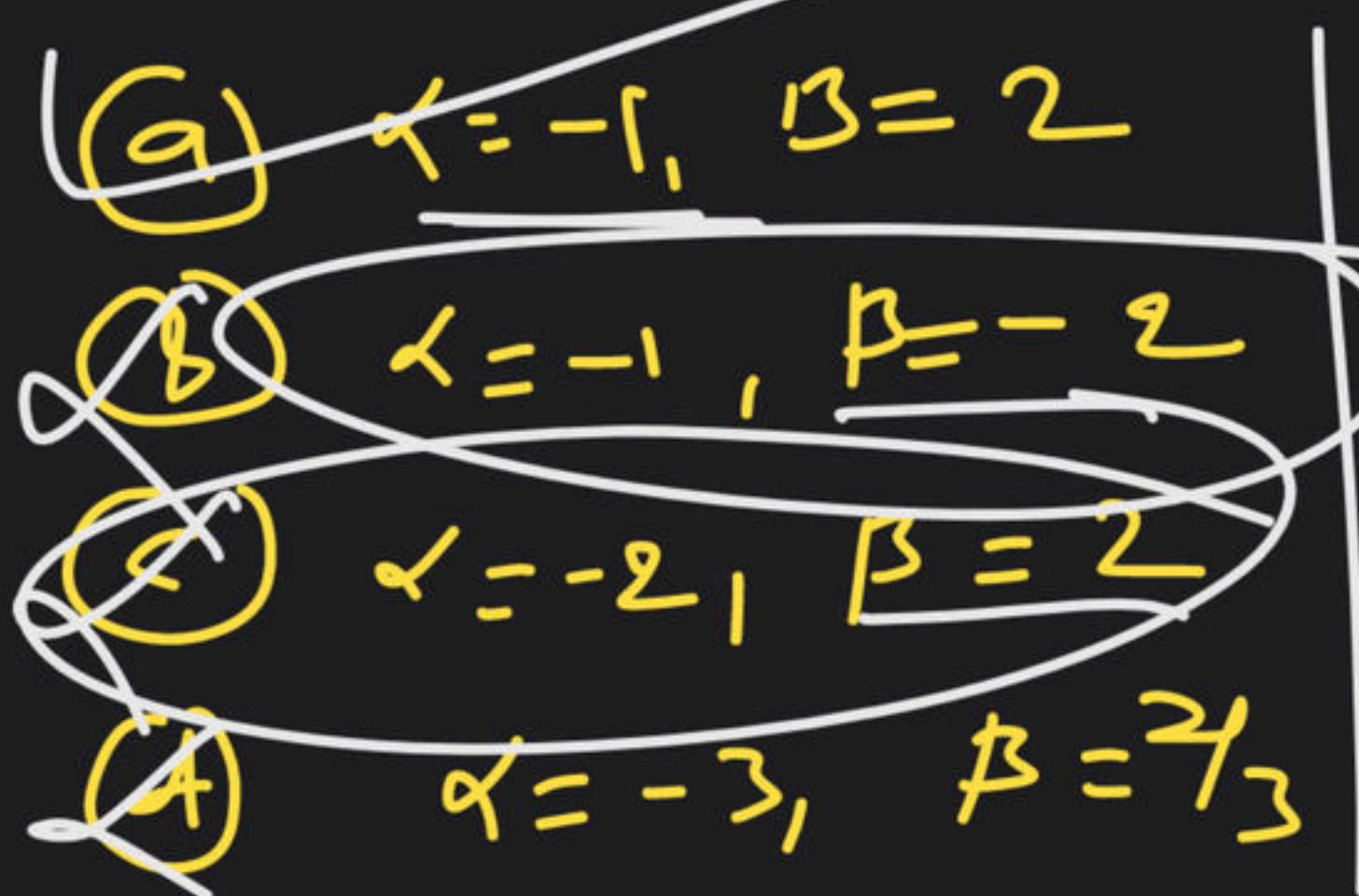
$$Y(e) = \frac{3}{e^2}$$
$$\ln e = 1$$

$$y^2 \frac{d^2y}{dx^2} - 2m \frac{dy}{dx} + 2y = 0$$

s.t.

$$\begin{cases} y(0) + y'(0) = 1 \\ y(2) + \beta y'(2) = 2 \end{cases}$$

Hay unique soñ if



$$(D(D-1)y - 2D + 2)y = 0$$

$$D^2 - 3D + 2 = 0$$

$$\begin{aligned} m^2 - 3m + 2 &= 0 \\ m &= 1, 2 \end{aligned}$$

$$y = c_1 e^x + c_2 e^{2x}$$

$$y = c_1 x + c_2 e^x \quad | \quad y' = c_1 + c_2 e^x$$

$$c_1 + c_2 + \alpha(c_1 + 2c_2) = 1$$

$$(1+\alpha)c_1 + (-2\alpha)c_2 = 1$$

$$(2+\beta)c_1 + (4+4\beta)c_2 = 2$$

$$2c_1 + 4c_2 + \beta(c_1 + 2c_2) = 2$$

$$\begin{bmatrix} 1+\alpha & 1-2\alpha \\ 2+\beta & 4+4\beta \end{bmatrix}$$

$$(1+\alpha)(4+4\beta) - (1-2\alpha)(2+\beta) \neq 0$$



**Q7.** Let  $y(x)$  be the solution of  $x^2y''(x) - 2y(x) = 0$ ;  $y(1) = 1, y(2) = 1$   
Then the value of  $y(3)$  is

(a)  $\frac{11}{21}$

(b) 1

(c)  $\frac{17}{21}$

(d)  $\frac{11}{7}$

**Q8**

A particular solution of  $x^2 \frac{d^2y}{dx^2} + 2x \frac{dy}{dx} + \frac{y}{4} = \frac{1}{\sqrt{x}}$  is

(a)  $\frac{1}{2\sqrt{x}}$

(b)  $\frac{\log x}{2\sqrt{x}}$

(c)  $\frac{(\log x)^2}{2\sqrt{x}}$

(d)  $\frac{(\log x)\sqrt{x}}{2}$



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- 📍 Studied at M.Sc., NET, PhD(Algebra), MBA(Finance), BEd
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**TO GET 10% DISCOUNT IN TOTAL SUBSCRIPTION AMOUNT**

**USE REFERRAL CODE: GPSIR**