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Gajendra Purohit

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Particular Integral (P.I.)

If n^{th} order linear differential equation with constant coefficient

is $f(D)y = Q$ Then Particular Integral is given by $\frac{Q}{f(D)}$

$$\frac{1}{f(D)}$$
 is an operator so $\frac{Q}{D} = \int Q dx; \quad \frac{Q}{D^2} = \int (\int Q dx) dx; \quad DQ = \frac{d}{dx} Q$

Method of Evaluation (P.I.)

Case 1:

When $Q = e^{ax}$, where a is any constant

$$\frac{e^{ax}}{f(D)} = \frac{e^{ax}}{f(a)}; \text{ provided } f(a) \neq 0$$

$$\text{If } f(a) = 0 \text{ then P.I. } \frac{e^{ax}}{(D-a)^r g(D)} = \frac{x^r}{r! \cdot g(a)} e^{ax}$$

$$(D^2 + 4D + 3)y = -e^{-3x}$$
$$y = \frac{-e^{-3x}}{D^2 + 4D + 3}$$
$$y = \frac{-xe^{-3x}}{2D+4}$$

$$y = \frac{xe^{2x}}{-4+4} = \frac{xe^{2x}}{-2}$$

$$(D^2 + D + 1)y = (-e^{-n})^2 \quad | \text{ cf } y = e^{-\nu_2 n} \left(C_1 \sqrt{\frac{3}{1}} \sin \nu_2 n + C_2 \cos \nu_2 n \right)$$

$$m^2 - m + 1 = 0$$

$$m = \frac{-1 \pm \sqrt{1-4}}{2} = \frac{-1 \pm \sqrt{3}i}{2}$$

$$= -\frac{1}{2} \pm \frac{\sqrt{3}}{2}i$$

$$PE \quad y = \frac{1 + e^{2n} + 2e^n}{D^2 + D + 1}$$

$$y = \frac{e^{cn}}{D^2 + D + 1} + \frac{e^{2n}}{D^2 + D + 1} + \frac{2e^n}{D^2 + D + 1}$$

$$Y = \frac{e^{cn}}{c(D+1)} + \frac{e^{2n}}{4+2+1} + \frac{2e^n}{1+1+1}$$

$$Y = 1 + \frac{e^{2n}}{7} + \frac{2e^n}{3}$$

$$r = Cf + \beta$$

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

$$(D^2 - D - 2)y = 3e^{2x}$$

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

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

$$m = -1, 2$$

$$\text{cf } y = c_1 e^{-x} + c_2 e^{2x}$$

$$y = cf + PC$$

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

PL $y = \frac{3e^{2x}}{D^2 - D - 2}$

$$y = \frac{3e^{2x}}{2D-1}$$

$$y = \frac{\beta e^{2x}}{\alpha}$$

$$y = \frac{\beta}{\alpha e^{2x}}$$

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

L.H.P.C + O.E.I.P P(n) then find P(1)

@ 0



(b) y_4

$\odot e^{\frac{x}{8}}$

$$y = \frac{e^n}{x^2 - 3x^2 + 3x - 1}$$

$$y = \frac{xe^n}{3x^2 - 6x + 3}$$

$$y = \frac{x^2 e^n}{x^2 - 1}$$

$$y = \frac{x^3 e^n}{6}$$

$$(D^2 + 2D + 1) f = \cancel{(e^n)} \cancel{(D^2 + 2D + 1)} f - \cancel{e^n} \cancel{D^2 + 2D + 1} f$$

Case 2:

When $Q = \sin ax$ or $\cos ax$, where a is any constant

$$\frac{\sin ax}{f(D^2)} = \frac{\sin ax}{f(-a^2)}; \text{ provided } f(-a^2) \neq 0$$

and $\frac{\cos ax}{f(D^2)} = \frac{\cos ax}{f(-a^2)}; \text{ provided } f(-a^2) \neq 0$

(i) If $f(-a^2) = 0$ then

P.I.

$$\frac{\sin ax}{f(D^2)} = \frac{x}{f'(D^2)} \sin ax = \frac{x}{f'(-a^2)} \sin ax; \text{ provided } f'(-a^2) \neq 0$$

(ii) If $f'(-a^2) = 0$ then

P.I. $\frac{\sin ax}{f(D)} = \frac{x^2}{f''(-a^2)} \sin ax; \text{ provided } f''(a) \neq 0 \text{ and so on}$

$$(D^2 + 3D + 2)y = \sin 2t$$

$$y = \frac{\sin 2t}{D^2 + 3D + 2}$$

$$y = \frac{\sin 2t}{-4 + 3D + 2}$$

$$y = \frac{(3D+2)\sin 2t}{(3D+2)(3D-2)}$$

$$y = \frac{(3D+2)\sin 2t}{(9D^2 - 4)}$$

$$y = \frac{(3D+2)\sin 2t}{9(-4) - 4}$$

$$y = \frac{3D(\sin 2t) + 2\sin 2t}{-40}$$

$$y = \frac{6(\sin 2t) + 2\sin 2t}{-40}$$

$$\frac{dy}{dx} - 9 \frac{dy}{dt} = \zeta_m$$

$$(D^2 - 9D) \gamma = \zeta_m$$

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

$$m = 0, 9$$

$$\gamma = C_0 e^{0x} + C_1 e^{9x} + C_2 e^{-9x}$$

$$PC \quad \gamma = \frac{\zeta_m}{D^2 - 9D}$$

$$\gamma = \frac{\zeta_m}{-b - 9D}$$

$$\gamma = \frac{\zeta_m}{-6D}$$

$$\gamma = \frac{D(C_0 x)}{-10D^2}$$

$$\gamma = -\frac{\delta m}{10}$$

$$-\frac{1}{10} \int \zeta_m dx$$

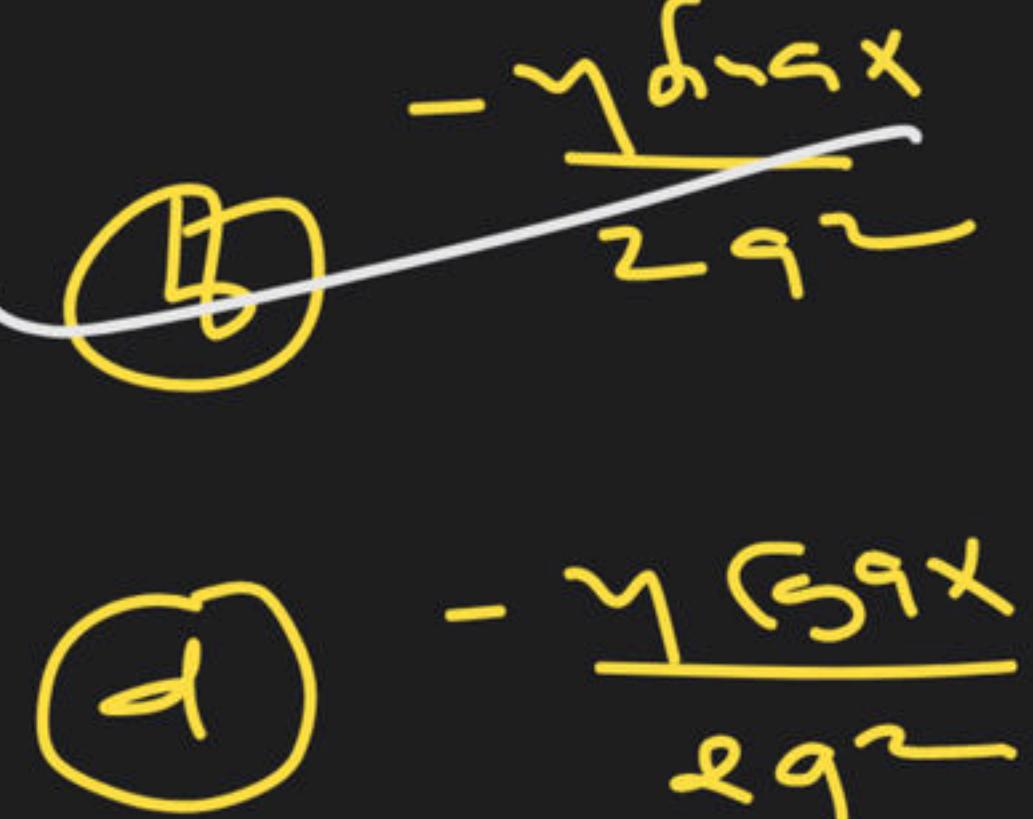
$$-\frac{\delta m}{10}$$

$$\frac{d^2y}{dx^2} + \frac{g^2}{D^2} \frac{dy}{dx} = \text{fmax}$$

② $\frac{\mu \text{fmax}}{2g^2}$

③ $\frac{\mu \text{fmax}}{2g^2}$

④ None



$$\frac{\text{fmax}}{D^2 \cdot D + g^2 D}$$

$$\frac{\mu \text{fmax}}{3g^2 + g^2}$$

$$\frac{\mu \text{fmax}}{-3g^2 + g^2}$$

$$\frac{\mu \text{fmax}}{-2g^2}$$

$$(D^2 + 4) \gamma = C_{sum}$$

$$\gamma = \frac{C_{sum}}{D^2 + 4}$$

$$\gamma = \frac{n \cdot C_{sum}}{2D}$$

$$\frac{V}{2} D \frac{(C_{sum})}{b^2} = \frac{n}{8} C_{sum}$$

$$\sum \int (C_{sum}) dx$$

$$\frac{\eta f_{sum}}{2}$$

Case 3:

When $Q = x^m$, where m being a positive integer

$$\frac{x^m}{f(D)} = \underline{[f(D)]^{-1} x^m}$$

Use

formula

$$(1+x)^n = 1 + nx + \frac{n(n-1)}{2!}x^2 + \frac{n(n-1)(n-2)}{3!}x^3 + \dots$$

$$(1+p)^{-1} = 1 - p + p^2 - p^3 + \dots$$

$$(1-p)^{-1} = 1 + p + p^2 + p^3 + \dots$$

$$(D^2 + 3D + 4) y = 1 + n^2 \quad y = \frac{1}{4} \left(1 - \frac{3D}{4} + \frac{D^2}{16} \right) (1 + n^2)$$

$$P_1 \quad y = \frac{1 + n^2}{D^2 + 3D + 4}$$

$$y = \frac{1}{4} \cdot \frac{1 + n^2}{\left(1 + \frac{D^2 + 3D}{4} \right)}$$

$$y = \frac{1}{4} \left(1 + \left(\frac{D^2 + 3D}{4} \right) \right)^1 (1 + n^2)$$

$$y = \frac{1}{4} \left(1 - \frac{D^2 + 3D}{4} + \left(\frac{D^2 + 3D}{4} \right)^2 - \dots \right) (1 + n^2)$$

$$y = \frac{1}{4} \left(1 - \frac{3n}{4} - \frac{D^2}{4} + \frac{9D^2}{16} \right) (1 + n^2)$$

$$y = \frac{1}{4} \left((1 + n^2) - \frac{3}{4} D (1 + n^2) + \frac{9}{16} D^2 (1 + n^2) \right)$$

$$y = \frac{1}{4} \left(1 + n^2 - \frac{3}{4} (2n) + \frac{5}{8} \right)$$

$$(D^2 - D^2 - \zeta D) y = (1 + n^2)$$

Let $P(x)$ & $\phi, \psi \in P^{(n)}$ then for $P^{(1)}$

$$y = \frac{1 + n^2}{D^2 - D^2 - \zeta D} \Rightarrow y = -\frac{1}{\zeta D} \left(1 + \left(\frac{D - D^2}{\zeta} \right) \right)^{-1} (1 + n^2)$$

$$y = -\frac{1}{\zeta D} \left[1 - \left(\frac{D - D^2}{\zeta} \right) + \left(\frac{D - D^2}{\zeta} \right)^2 - \dots \right] (1 + n^2)$$

$$y = -\frac{1}{\zeta D} \left[1 - \frac{D}{\zeta} + \frac{D^2}{\zeta} - \frac{D^3}{3! \zeta} \right] (1 + n^2) = -\frac{1}{\zeta D} \left[1 - \frac{D}{\zeta} + \frac{2D^2}{3! \zeta} \right] (1 + n^2)$$

$$= -\frac{1}{\zeta D} \left[1 + n^2 - \frac{n^2}{2} + \frac{7}{18} \right] = \underline{-\frac{1}{\zeta D} \left(n^2 + \frac{n^3}{2} - \frac{n^4}{6} + \frac{7}{18} n \right)}$$

Q.1. The solution of Differential following differential

$$\text{equation } y'' + 4y' + 4y = x^2, y(0) = 1, y(1) = 1 \text{ is}$$

(a) $y(x) = 1$

(b) $y(x) = 0$

(c) $y(x) = \left(\frac{5}{8} + \frac{7}{8}e^2x - \frac{5}{8}x\right)e^{-2x} + \frac{1}{4}\left(x^2 - 2x + \frac{3}{2}\right)$

(d) $y(x) = 2\cos 4x + 5\sin 4x$

$$m^2 + 4m + 4 = 0$$

$$m_1 = m_2 = -2$$

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

Pr $y = \frac{1}{D^2 + 4D + 4} = \frac{1}{(D + 2)^2}$

$$y = \frac{1}{4}\left(1 + \frac{D^2 + 4D}{4}\right)^{-1}$$

$$y = \frac{1}{4}\left(1 - D - \frac{D^2}{4} + \frac{(D^2 + 4D)}{4}\right)^{-1}$$

$$y = \frac{1}{4}\left(1 - D - \frac{D^2}{4} + D^2\right)^{-1}$$

$$y = \frac{1}{4}\left(1 - D + \frac{D^2}{4}\right)^{-1}$$

$$y = \frac{1}{4}(y^2 - 2y + 1)$$

Q2.

The particular integral of the differential equation

$$y'' + y' + 3y = 5 \cos(2x+3)$$

(a) $2\cos(2x+3) - \sin(2x+3)$

(b) $2\sin(2x+3) + \cos(2x+3)$

(c) $\sin(2x+3) - 2\cos(2x+3)$

(d) $2\sin(2x+3) - \cos(2x+3)$

$$y = \frac{5 \zeta s^{(2n+3)}}{D^2 + D + 3}$$

$$y = \frac{5 \zeta s^{(2n+3)}}{(D+1)}$$

$$y = \frac{5(D+1)\zeta s^{(2n+3)}}{D^2 - 1}$$

$$y = -\frac{5}{5} (-2\zeta n s^{(2n+3)} + \zeta s^{(n+3)})$$

$$y = 2\delta n s^{(2n+3)} - \zeta s^{(2n+3)}$$

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Q.3. The solution of differential equation $y'' - y' - 2y = 3e^{2x}$

where $y(0) = 0$ and $y'(0) = -2$ is

(a) $y = e^{-x} - e^{2x} + xe^{2x}$

(b) $y = e^x - e^{-2x} - xe^{2x}$

(c) $y = e^{-x} + e^{2x} + xe^{2x}$

(d) $y = e^x - e^{-2x} + xe^{2x}$

$$\begin{aligned}m^2 - m - 2 &= 0 \\m &= 1, 2 \\y &= C_1 e^x + C_2 e^{2x}\end{aligned}$$

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Q4.

The solution of the differential equation

$$\frac{d^2y}{dx^2} - \frac{dy}{dx} - 2y = 3e^{2x} \text{ where } y(0) = 0 \text{ and}$$

$y'(0) = -2$ is

(a) $y = e^{-x} - e^{2x} + xe^{2x}$

(c) $y = e^{-x} + e^{2x} + xe^{2x}$

(b) $y = e^{-x} - e^{-2x} - xe^{2x}$

(d) $y = e^{-x} - e^{-2x} + xe^{2x}$

Q5. Consider the following second order differential equation

$$\underline{y'' - 4y' + 3y = 2t - 3t^2}$$

The particular solution of the differential equation is

(a) $-2 - 2t - t^2$

(b) $-2t - t^2$

(c) $2t - t^2$

(d) $-2 - 2t - 3t^2$

$$y = \frac{2t - 3t^2}{D^2 - 4D + 3}$$

$$y = \frac{1}{3} \left(1 + \frac{D^2 - 4D}{3} \right)^{-1} (2t - 3t^2)$$

$$y = \frac{1}{3} (2t - 3t^2) + \frac{4}{3} \left(2 - t + 1 + \frac{1}{9} \right) (-C)$$

$$y = \frac{1}{3} \left(1 - \left(\frac{D^2 - 4D}{3} \right) + \left(\frac{D - 1}{3} \right) \right) (2t - 3t^2)$$

$$y = \frac{1}{3} \left(2t - 3t^2 + \frac{8}{3} - 8t + \frac{2}{3} \right)$$

$$y = \frac{1}{3} \left(1 + \frac{4D}{3} - \frac{D^2}{3} + \frac{16D^2}{9} \right) (2t - 3t^2)$$

$$= \frac{1}{3} (-5t^2 - 6t - 4)$$

$$y = \frac{1}{3} \left(1 + \frac{4D}{3} + \frac{12D^2}{9} \right) (2t - 3t^2)$$

$$= -\frac{5t^2 - 6t - 4}{3}$$

Q6. The solution of the differential equation for

$y(t) : \frac{d^2y}{dt^2} - y = 2 \cosh(t)$, subject to the initial

conditions: $y(0) = 0$ and $\left. \frac{dy}{dt} \right|_{t=0} = 0$ is:

- (a) $\frac{1}{2} \cosh(t) + t \sinh(t)$
- (b) $-\sinh(t) + t \cosh(t)$
- (c) $t \cosh(t)$
- (d) $t \sinh(t)$



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Educator highlights

- 📍 Works at Pacific Science College
- 📍 Studied at M.Sc., NET, PhD(Algebra), MBA(Finance), BEd
- 📍 PhD, NET | Plus Educator For CSIR NET | Youtuber (260K+Subs.) | Director Pacific Science College |
- 📍 Lives in Udaipur, Rajasthan, India
- 📍 Unacademy Educator since

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