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Method of Evaluation (P.I.)

Case 4: When $Q = e^{ax}V$, where V is a function of x

$$\frac{e^{ax}V}{f(D)} = e^{ax} \frac{V}{f(D+a)}$$

Q1

A particular solution of the differential equation

$$y''' - 3y'' + 3y' - y = e^x \cos 2x \text{ is}$$

(a) $-\frac{1}{8}e^x \sin 2x$

(b) $\frac{1}{8}e^x \sin 2x$

(c) $\frac{1}{8}e^x \cos 2x$

(d) $e^x \sin 2x$

Case 5: To find the P.I. for $Q = x^n \sin ax$ or $Q = x^n \cos ax$

Write

$$\frac{1}{f(D)} x^n \sin ax = \text{Imaginary Part (IP) in } e^{iax} \frac{1}{f(D+ia)} x^n$$

$$\text{And } \frac{1}{f(D)} x^n \cos ax = \text{Real Part (RP) in } e^{iax} \frac{1}{f(D+ia)} x^n$$

Q2.

A particular integral of the differential equation

$$\frac{d^2 y}{dx^2} - 2 \frac{dy}{dx} = e^{2x} \sin x \text{ is}$$

- (a) $\frac{e^{2x}}{10}(3 \cos x - 2 \sin x)$ (b) $-\frac{e^{2x}}{10}(3 \cos x - 2 \sin x)$
(c) $-\frac{e^{2x}}{5}(2 \cos x + \sin x)$ (d) $\frac{e^{2x}}{5}(2 \cos x - \sin x)$

Q3. The general solution of the differential equation

$$y''(x) - 4y'(x) + 8y(x) = 10e^x \cos x$$

(a) $e^{2x} (k_1 \cos 2x + k_2 \sin 2x) + e^x (2 \cos x + \sin x)$

(b) $e^{2x} (k_1 \cos 2x + k_2 \sin 2x) + e^x (2 \cos x - \sin x)$

(c) $e^{-2x} (k_1 \cos 2x + k_2 \sin 2x) - e^x (2 \cos x - \sin x)$

(d) $e^{-2x} (k_1 \cos 2x + k_2 \sin 2x) + e^x (2 \cos x + \sin x)$

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Q.4. Solve $(D^2 - 2D + 1)y = \sin x + x^2 e^x$.

(a) $(c_1 + c_2 x) e^x + \left(\frac{1}{2}\right) \cos x + \left(\frac{1}{12}\right) x^4 e^x$

(b) $(c_1 + c_2 x) e^{-x} + \left(\frac{1}{2}\right) \cos x - \left(\frac{1}{12}\right) x^4 e^x$

(c) $(c_1 + c_2 x) e^{-x} + \left(\frac{1}{2}\right) \cos x + \left(\frac{1}{12}\right) x^4 e^x$

(d) None of these

Q.5. Let $p(x)$ be the particular integral of $(D^2 + 1)y = e^x \cos x + \sin 3x$ then $p(0)$

(a) $-\frac{119}{730}$

(b) $\frac{119}{730}$

(c) $\frac{19}{730}$

(d) None of these

Q.6. Let $p(x)$ be the particular solution integral of the equation

$$(D^2 + 4)y = x \sin x, \text{ then } p\left(\frac{\pi}{2}\right).$$

(a) $\pi/3$

(b) $-\pi/6$

(c) $\pi/2$

(d) $\pi/6$

Q7. If $y(t)$ is a solution of the differential equation $y'' + 4y = e^{2t}$ then

$\lim_{t \rightarrow \infty} e^{-t} y(t)$ is equal to

(a) $2/3$

(b) $2/5$

(c) $2/7$

(d) $2/9$



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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
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