

EXERCISE 3.26

Solve the following differential equations:

1. $x^2 \frac{d^2 y}{dx^2} - 4x \frac{dy}{dx} + 6y = \frac{42}{x^4}$ **Ans.** $C_1 x^2 + C_2 x^3 + \frac{1}{x^4}$
2. $(x^2 D^2 - 3x D + 4) y = 2x^2$ **Ans.** $(C_1 + C_2 \log x) x^2 + x^2 (\log x)^2$
3. $x^2 \frac{d^2 y}{dx^2} - x \frac{dy}{dx} + y = \log x$ (*AMIETE, June 2010*) **Ans.** $(C_1 + C_2 \log x) x + \log x + 2$
4. $\frac{d^2 y}{dx^2} + \frac{1}{x} \frac{dy}{dx} = \frac{12 \log x}{x^2}$ **Ans.** $C_1 + C_2 \log x + 2 (\log x)^2$
5. $(x^2 D^2 - x D - 3) y = x^2 \log x$ **Ans.** $\frac{C_1}{x} + C_2 x^3 - \frac{x^2}{3} \left(\log x + \frac{2}{3} \right)$
(*A.M.J.E. Winter 2001, Summer 2001*)
6. $x^2 \frac{d^2 y}{dx^2} - 2x \frac{dy}{dx} + 2y = x^2 + \sin (5 \log x)$
Ans. $c_1 x + c_2 x^2 + x^2 \log x + \frac{1}{754} [15 \cos (5 \log x) - 23 \sin (5 \log x)]$
7. $x^2 \frac{d^2 y}{dx^2} - 3x \frac{dy}{dx} + y = \log x \frac{\sin (\log x) + 1}{x}$ (*AMIETE, Dec. 2009*)
Ans. $y + C_1 x^{2+\sqrt{3}} + C_2 x^{2-\sqrt{3}} + \frac{1}{x} \left[\frac{382}{61} \cos \log x + \frac{54}{61} \sin (\log x) + 6 \log x \cos (\log x) + 5 \log x \sin (\log x) \right] + \frac{1}{6x}$
8. $(1+x)^2 \frac{d^2 y}{dx^2} + (1+x) \frac{dy}{dx} + y = 2 \sin \log (1+x)$
Ans. $y = C_1 \cos \log (1+x) + C_2 \sin \log (1+x) - \log (1+x) \cos \log (1+x)$
9. Which of the basis of solutions are for the differential equation $x^2 \frac{d^2 y}{dx^2} - x \frac{dy}{dx} + y = 0$
(a) $x, x I_n x,$ (b) $I_n x, e^x$ (c) $\frac{1}{x}, \frac{1}{x^2},$ (d) $\frac{1}{x^2} e^x, x I_n x$
(*A.M.J.E., Winter 2001*) **Ans.** (a)
10. The general solution of $x^2 \frac{d^2 y}{dx^2} - 5x \frac{dy}{dx} + 9y = 0$ is
(a) $(C_1 + C_2 x) e^{3x}$ (b) $(C_1 + C_2 x) x^3$ (c) $(C_1 + C_2 x) x^3$ (d) $(C_1 + C_2 I_n x) e^{x^3}$
(*AMIETE, Dec. 2009*) **Ans.** (b)
11. To transform $x \frac{d^2 y}{dx^2} + \frac{dy}{dx} = \frac{1}{x}$ into a linear differential equation with constant coefficients, the required substitution is
(a) $x = \sin t$ (b) $x = t^2 + 1$ (c) $x = \log t$ (d) $x = e^t$
(*AMIETE, June 2010*) **Ans.** (d)

Advanced Engineering Mathematics Problems Solution

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