

**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.I.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.I.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

**Lingjun Ying**



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