

DIFFERENTIAL EQUATIONS (Level-I)

1. Obtain the differential equations of following curves
- (i) $xy = ae^x + be^{-x} + x^2$ $x \frac{d^2y}{dx^2} + 2 \frac{dy}{dx} = xy - x^2 + 2$
- (ii) $x^2 + y^2 + 2ax + 2by + c = 0$ $3y_1 y_2 - (1 + y_1^2) y_3 = 0$
- (iii) $y = a_1 e^{2x} + a_2 \cos 2x + a_3 \sin 2x$ $y_3 - 2y_2 + 4y_1 - 8y = 0$
- (iv) $y = \frac{A}{x} + B$ $\frac{d^2y}{dx^2} + \frac{2}{x} \frac{dy}{dx} = 0$
2. Solve the following differential equations :
- (i) $\sec^2 x \tan y dx + \sec^2 y \tan x dy = 0$ $\tan x \tan y = c$
- (ii) $(x - y^2 x) dx = (y - x^2 y) dy$ $1 - y^2 = c(1 - x^2), c > 0$
- (iii) $y - x \frac{dy}{dx} = a \left(y^2 + \frac{dy}{dx} \right)$ $\frac{y}{1 - ay} = \frac{c}{a + x}, c > 0$
- (iv) $\frac{dy}{dx} = e^{x+y} + x^2 e^{-y}$ $e^y = e^x + \frac{x^3}{3} + c$
- (v) $(e^y + 1) \cos x dx + e^y \sin x dy = 0$ $(e^y + 1) \sin x = 0$
- (vi) $e^{dy/dx} = x + 1$ when $x = 0, y = 3$ $y = (x + 1) \ln(x + 1) - x + 3$
3. Solve the following differential equations:
- (i) $\frac{dy}{dx} = (x + y)^2$ $x + y = \tan(x + c)$
- (ii) $\cos(x + y) dy = dx$ $y - \tan \frac{x + y}{2} = c$
- (iii) $\frac{dy}{dx} = (4x + y + 1)^2$ $4x + y + 1 = 2 \tan(2x + c)$
- (iv) $\frac{x + y - 1}{x + y - 2} \frac{dy}{dx} = \frac{x + y + 1}{x + y + 2}$ $\ln |(x + y)^2 - 2| = 2(x - y + c)$
- (v) $\frac{dy}{dx} = \frac{x + y + 1}{x + y - 1}$ $x + y = ce^{y-x}$
- (vi) $(3x + 4y - 5)^2 \frac{dy}{dx} = 4$ $\frac{1}{3} (3x + 4y - 5) - \frac{4}{3\sqrt{3}} \tan^{-1} \left(\frac{\sqrt{3}}{4} (3x + 4y - 5) \right) = x + c$
- (vii) $\ln \frac{dy}{dx} = 4x - 2y - 2$ when $x = 1, y = 1$ $2e^{2y+2} = 4e^{4x} + c$
4. Find the equation of the curve which passes through the point (2, 2) and satisfies the differential equation $y - x \frac{dy}{dx} = 2 \left(y^2 + x^2 \frac{dy}{dx} \right)$ $\frac{5x}{1 + 2x} + \frac{3y}{1 - 2y} = 0$
5. Determine the equation of the curve passing through the origin, in the form $y = f(x)$, which satisfies the differential equation $\frac{dy}{dx} = \sin(10x + 6y)$ $y = \frac{1}{3} \left(\tan^{-1} \frac{5 \tan 4x}{4 - 3 \tan 4x} - 5x \right)$
6. Solve the following differential equations:
- (i) $x^2 dy + y(x + y) dx = 0$ $\left| \frac{x^2 y}{2x + y} \right| = c$
- (ii) $x dy - y dx = \sqrt{x^2 + y^2} dx$ $cx^2 = y + \sqrt{x^2 + y^2}$
- (iii) $(x^2 - 3xy^2) dx = (y^2 - 3x^2 y) dy$ $c(x^2 + y^2)^2 = (y^2 - x^2), c > 0$
- (iv) $\frac{dy}{dx} + \frac{y(x + y)}{x^2} = 0$ $x^2 y = c(2x + y)$

Differential Equations Questions And Answers

R Barnett



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