

DIFFERENTIAL EQUATIONS (Level-I)

1. Obtain the differential equations of following curves

(i) $xy = ae^x + be^{-x} + x^2$

(ii) $x^2 + y^2 + 2ax + 2by + c = 0$

(iii) $y = a_1 e^{2x} + a_2 \cos 2x + a_3 \sin 2x$

(iv) $y = \frac{A}{x} + B$

$$x \frac{d^2y}{dx^2} + 2 \frac{dy}{dx} = xy - x^2 + 2$$

$$3y_1 y_2^2 - (1 + y_1^2) y_3 = 0$$

$$y_3 - 2y_2 + 4y_1 - 8y = 0$$

$$\frac{d^2y}{dx^2} + \frac{2}{x} \frac{dy}{dx} = 0$$

2. Solve the following differential equations :

(i) $\sec^2 x \tan y dx + \sec^2 y \tan x dy = 0$

(ii) $(x - y^2 x) dx = (y - x^2 y) dy$

(iii) $y - x \frac{dy}{dx} = a \left(y^2 + \frac{dy}{dx} \right)$

(iv) $\frac{dy}{dx} = e^{x+y} + x^2 e^y$

(v) $(e^y + 1) \cos x dx + e^y \sin x dy = 0$

(vi) $e^{dy/dx} = x + 1$ when $x = 0, y = 3$

3. Solve the following differential equations:

(i) $\frac{dy}{dx} = (x + y)^2$

(ii) $\cos(x + y) dy = dx$

(iii) $\frac{dy}{dx} = (4x + y + 1)^2$

(iv) $\frac{x + y - 1}{x + y - 2} \frac{dy}{dx} = \frac{x + y + 1}{x + y + 2}$

(v) $\frac{dy}{dx} = \frac{x + y + 1}{x + y - 1}$

(vi) $(3x + 4y - 5)^2 \frac{dy}{dx} = 4$

(vii) $\ln \frac{dy}{dx} = 4x - 2y - 2$ when $x = 1, y = 1$

$$\tan x \tan y = c$$

$$1 - y^2 = c(1 - x^2), c > 0$$

$$\frac{y}{1 - ay} = \frac{c}{a + x}, c > 0$$

$$e^y = e^x + \frac{x^3}{3} + c$$

$$(e^y + 1) \ln(x + 1) = 0$$

$$y = (x + 1) \ln(x + 1) - x + 3$$

$$x + y = \tan(x + c)$$

$$y - \tan \frac{x + y}{2} = c$$

$$4x + y + 1 = 2 \tan(2x + c)$$

$$\ln |(x + y)^2 - 2| = 2(x - y + c)$$

$$x + y = ce^{y-x}$$

$$\frac{1}{3} (3x + 4y - 5) - \frac{4}{3\sqrt{3}} \tan^{-1} \left(\frac{\sqrt{3}}{4} (3x + 4y - 5) \right) = x + c$$

$$2e^{2y+2} = 4e^{4x} + c$$

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

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