

3

Differential Equations

3.1 DEFINITION

An equation which involves differential co-efficient is called a differential equation.

For example,

$$\begin{array}{lll} 1. \frac{dy}{dx} = \frac{1+x^2}{1-y^2} & 2. \frac{d^2y}{dx^2} - 2\frac{dy}{dx} - 3y = 0 & 3. \left[1 + \left(\frac{dy}{dx}\right)^2\right]^{\frac{3}{2}} - x\frac{d^2y}{dx^2} \\ 4. x\frac{\partial u}{\partial x} + y\frac{\partial u}{\partial y} = xu, & 5. \frac{\partial^2 z}{\partial x \partial y} = \frac{\partial z}{\partial y} \end{array}$$

There are two types of differential equations :

(1) Ordinary Differential Equation

A differential equation involving derivatives with respect to a single independent variable is called an ordinary differential equation.

(2) Partial Differential Equation

A differential equation involving partial derivatives with respect to more than one independent variable is called a partial differential equation.

3.2 ORDER AND DEGREE OF A DIFFERENTIAL EQUATION

The order of a differential equation is the order of the highest differential co-efficient present in the equation. Consider

$$\begin{array}{ll} 1. L\frac{d^2q}{dt^2} + R\frac{dq}{dt} + \frac{q}{C} = E\sin\omega t. & 2. \cos x \frac{d^2y}{dx^2} + \sin x \left(\frac{dy}{dx}\right)^2 + 3y = \tan x \\ 3. \left[1 + \left(\frac{dy}{dx}\right)^2\right]^3 = \left(\frac{d^2y}{dx^2}\right)^2 \end{array}$$

The order of the above equations is 2.

The degree of a differential equation is the degree of the highest derivative after removing the radical sign and fraction.

The degree of the equation (1) and (2) is 1. The degree of the equation (3) is 2.

3.3 FORMATION OF DIFFERENTIAL EQUATIONS

The differential equations can be formed by differentiating the ordinary equation and eliminating the arbitrary constants.

Example 1. Form the differential equation by eliminating arbitrary constants, in the following cases and also write down the order of the differential equations obtained.

(a) $y = Ax + A^2$

(b) $y = A \cos x + B \sin x$

(c) $y^2 = Ax^2 + Bx + C.$

(R.G.P.V. Bhopal, June 2008)

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