Differential Equation

1. **Introduction :**

An equation involving independent and dependent variables and the derivatives of the dependent variables is called a **differential equation**. There are two kinds of differential equation:

1.1 **Ordinary Differential Equation :** If the dependent variables depend on one independent variable x, then the differential equation is said to be ordinary.

for example $\quad \dfrac{dy}{dx} + \dfrac{dz}{dx} = y + z.$

$\dfrac{dy}{dx} + xy = \sin x. \qquad \dfrac{d^2y}{dx^2} + 2\dfrac{dy}{dx} + y = e^x.$

$k\dfrac{d^2y}{dx^2} = \left[1 + \left(\dfrac{dy}{dx}\right)^2\right]^{3/2}, \quad y = x\dfrac{dy}{dx} + k\sqrt{1 + \left(\dfrac{dy}{dx}\right)^2}$

1.2 **Partial differential equation :** If the dependent variables depend on two or more independent variables, then it is known as partial differential equation.

for example $\quad y^2\dfrac{\partial^2 z}{\partial x} + y\dfrac{\partial^2 z}{\partial y} = ax, \dfrac{\partial^2 z}{\partial x^2} + \dfrac{\partial^2 z}{\partial y^2} = 0$

2. **Order and Degree of a Differential Equation:**

2.1 **Order :** Order is the highest differential appearing in a differential equation.

2.2 **Degree :**

It is determined by the degree of the highest order derivative present in it after the differential equation is cleared of radicals and fractions so far as the derivatives are concerned.

$$f_1(x, y)\left[\dfrac{d^my}{dx^m}\right]^p + f_2(x, y)\left[\dfrac{d^{m-1}y}{dx^{m-1}}\right]^q + \dots\dots f_k(x, y)\left[\dfrac{dy}{dx}\right]^r = 0$$

The above differential equation has the order m and degree p.

Example :

Find the order & degree of following differential equations.

(i) $\quad \dfrac{d^2y}{dx^2} = \left[y + \left(\dfrac{dy}{dx}\right)^2\right]^{1/4}$

(ii) $\quad y = e^{\left(\frac{dy}{dx} \cdot \frac{d^2y}{dx^2}\right)}$

(iii) $\quad \sin\left(\dfrac{dy}{dx} + \dfrac{d^2y}{dx^2}\right) = y$

(iv) $\quad e^{y'''} - xy'' + y = 0$

Solution.

(i) $\quad \left(\dfrac{d^2y}{dx^2}\right)^4 = y + \left(\dfrac{dy}{dx}\right)^2 \qquad \therefore \quad$ order = 2, degree = 4

(ii) $\quad \dfrac{d^2y}{dx^2} + \dfrac{dy}{dx} = \ell ny \qquad \therefore \quad$ order = 2, degree = 1

(iii) $\quad \dfrac{d^2y}{dx^2} + \dfrac{dy}{dx} = \sin^{-1}y \qquad \therefore \quad$ order = 2, degree = 1

(iv) $\quad e^{\frac{d^3y}{dx^3}} - x\dfrac{d^2y}{dx^2} + y = 0 \qquad \therefore \quad$ equation can not be expressed as a polynomial in differential coefficients, so degree is not applicable but order is 3.

Self Practice Problems :

1. Find order and degree of the following differential equations.

(i) $\quad \dfrac{dy}{dx} + y = \dfrac{1}{\frac{dy}{dx}}$ **Ans.** order = 1, degree = 2

(ii) $\quad e^{\left(\frac{d^3y}{dx^3} - \frac{d^2y}{dx^2}\right)} = \ell n\left(\dfrac{d^2y}{dx^2} + 1\right)$ **Ans.** order = 3, degree = not applicable.

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