DIFFERENTIAL EQUATIONS

A differential equation is a mathematical equation that relates some function with its derivative. In applications the function usually represent physical quantities, the derivatives represent their rate of change.

Examples of differential equation are

$$\frac{dy}{dx} = y$$
, $\frac{d^2y}{dx^2} + 4\frac{dy}{dx} + 8 = 0$, $\frac{dy}{dx} = \sin x + \cos x$, Etc.

Order of a differential equation

The order of a differential equation is the order of the highest derivative appearing in that equation.

For example:

(1).
$$\frac{dy}{dx} = x + y, \frac{dy}{dx} = \sin x + \cos x,$$
$$y - \frac{dy}{dx} = x, \text{ etc}$$

are all first order differential equations

(2).
$$\frac{d^2y}{dx^2} = 5 + x$$
, $5\frac{d^2y}{dx^2} - \left(\frac{dy}{dx}\right)^3 = 7$, $7\left(\frac{d^2y}{dx^2}\right)^2 + x\frac{dy}{dx} + 6 = 0$

are all second order differential equation

(3).
$$\frac{d^3y}{dx^3} + \sin x = 0$$
, $\left(\frac{d^3y}{dx^3}\right)^2 + 5\left(\frac{dy}{dx}\right)^2 + \sin x = 0$

Are all third order differential equations.

The Degree of a Differential Equation

The degree of a differential equation is the highest integral power to which the highest order derivative is taised when a differential equation is written as a polynomial in unknown function and its derivative.

Example:

(i)
$$\frac{dy}{dx} - xy = 0$$
, $\frac{d^2y}{dx^2} + 2\left(\frac{dy}{dx}\right)^2 + 2 = 0$
 $\frac{y}{x} \cdot \frac{dy}{dx} = 1$, $\frac{d^3y}{dx^2} = \sin x - \cos x$

are all first degree differential equations

(ii)
$$\left(\frac{dy}{dx}\right)^2 + xy = 0$$
, $2\left(\frac{d^2y}{dx^2}\right)^2 + 6x\left(\frac{dy}{dx}\right)^3 = 0$

Are all second degree differential equations

(iii)
$$\left(\frac{d^2y}{dx^2}\right)^3 = 5\left(\frac{dy}{dx}\right) + \sin x$$
,

$$\left(\frac{dy}{dx}\right)^{3} + x\left(\frac{dy}{dx}\right)^{4} + xy = 0$$

Are all third degree differential equations.

Example

Determine the order and the degree of the following differential equations

$$(a)\frac{dy}{dx} + xy = 5x$$

(b)
$$\frac{d^2y}{dx^2} - 5x \frac{dy}{dx} = e^x + x^2$$

(c)
$$x^2 \left(\frac{d^3y}{dx^3}\right)^2 + 3x \frac{d^3y}{dx^2} + 7x = 0$$

$$(d) y - 5x \left(\frac{dy}{dx}\right)^2 = e^x + x^2 \cos x$$

Seduction

(a) First order, first degree differential equation

(b) 2nd order, first degree differential equations

(c) third order second degree differential equation.

(d) first order second degree differential equation.

A Solution of a Differential Equation

A solution to a differential equation is defined as any relationship connecting the two variables of the equation and not involving their derivatives. A solution to a first order differential equation is said to be general solution (complete solution). If an arbitrary constant remains in the solution. The solution obtained by giving a particular value to an arbitrary constant is called a particular solution.

First Order Differential Equations

(1) Method of separating the variables

Example I

Find the general solution of the following differential equations

a)
$$(a)\frac{dy}{dx} = y$$

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

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Judd E. Hollander

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