

Many of us get confused between 'degree' and 'order' of a Differential Equation when we start studying it.

- Order of a differential equation is the order of the highest order derivative occurring in the differential equation.
- Degree (when defined) of a differential equation is the highest power (positive integer only) of the highest order derivative in it.

To avoid getting confused, remember a small Differential Equation like:

$$\frac{d^3y}{dx^3} + 2\left(\frac{d^2y}{dx^2}\right)^2 - \frac{dy}{dx} + y = 0$$

↑

Order = 3

Degree = 1

along with its 'order' and 'degree'