

## Answer on Question #78008 – Math – Differential Equations

### Question

The degree of differential Equation:

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

- a. 2
- b. 1
- c. 3
- d. 4

### Solution

The degree of a differential equation is the power of the highest order derivative in the equation.

So, here degree is 2.

**Answer:** Degree is 2.