

1 DIFFERENTIAL EQUATIONS

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Differential Equation

- an equation which contains derivatives or differential is called a differential equation.

$$a) \frac{dy}{dx} + \frac{y}{x} = x^2 - 1$$

$$d) \frac{\partial z}{\partial t} = z - t \frac{\partial z}{\partial s}$$

$$b) (s+t)dt - tds = 0$$

$$e) \frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} = x^3y - 2x$$

$$c) \frac{d^2y}{dx^2} + 2 \frac{dy}{dx} - 3xy = 0$$

$$f) xy^2 - 2xy + 3x^4y - 5 = 0$$

Equations a, b and c are ordinary differential equations because they contain only ordinary derivatives or differentials; d and e are partial differential equations because they contain partial derivatives; f is not a differential equation, it is an algebraic equation in x and y.

Order and Degree of a Differential Equation

a) Order of a Differential Equation

- this is the order of the highest derivative that appears in the DE.

examples:

$$a) \frac{d^2y}{dx^2} - 5x \frac{dy}{dx} = 2e^x + 1 \longrightarrow \text{second order}$$

$$b) x \sin y dx + x^2 \cos y dy = 0 \longrightarrow \text{first order}$$

$$c) \frac{d^3y}{dt^3} + t \frac{dy}{dt} = y^2t - 3 \longrightarrow \text{third order}$$

b) Degree of a Differential Equation

If a differential equation can be written as a polynomial in the unknown function and its derivatives, then its degree is the power to which the highest

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