

Modelling Physical Phenomena, Planetary Motion and Conservation Laws

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What is a Differential Equation?

- A differential equation is an equation that related one or more unknown functions and their derivatives.
- In applications, the functions generally represent physical quantities, the derivatives represent their rate of changes, and the differential equation defines a relationship between the two.
- Two major division of differential equations: ODE and PDE.

ODE and PDE

- An ordinary differential equation (ODE) is an equation containing an