
Contents

Differential equation	2
Condition for ordinary differential equation	2
Order of differential equation	2
Degree of differential equation	2
Solution of differential equation	2
Terms for general solution in differential equation	2
General solution in differential equation	2
Particular solution in differential equation	2
Expression of autonomous differential equation	3
Expression of general second order differential equation	3

Differential equation

Equation which contains derivatives with or without dependent variable or independent variable or both

Condition for ordinary differential equation

Absence of partial derivative

Order of differential equation

Order of highest derivative occurring in the equation

Degree of differential equation

Power the highest derivative is raised to in a equation

Solution of differential equation

Relation of variables free from derivatives satisfying source equation

Terms for general solution in differential equation

- Complete solution
- Complete primitive

General solution in differential equation

Relation of variable containing one arbitrary constant

Particular solution in differential equation

Relation of variable containing specific constant instead of an arbitrary one

Expression of autonomous differential equation

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

Expression of general second order differential equation

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$$P = Q = R = \text{Function of } x$$

$$\frac{d^2y}{dx^2} + P \frac{dy}{dx} + Q = R$$