

7. Differential Equations

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ORDINARY DIFFERENTIAL EQUATIONS OF FIRST ORDER

An equation containing dependent variable, independent variables and the derivatives of dependent variable w.r.t. independent variables is called differential eqn.

ODEs

Contains ordinary derivative

PDEs

Contains partial derivative

SOLUTION

General

Family of plane curves

Particular

Single specific curve; some condition specified

NOTE: No. of arbitrary constants in soln = Order of DE