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derivative present in the equation. Linear or nonlinear. A second order ODE is said to be linear if it can be written in the form $a(t) \frac{d^2y}{dt^2} + b(t) \frac{dy}{dt} + c(t)y = f(t)$, (1.8) where the coefficients $a(t)$, $b(t)$ & $c(t)$ can, in general, be functions of t. An equation that is not linear is said to be nonlinear. Note

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Linear algebra - Wikipedia
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Differential algebra - Wikipedia

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