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In mathematics a differential equation is an equation that relates one or more unknown functions and their derivatives. In applications the functions generally represent physical quantities the derivatives represent their rates of change and the differential equation defines a relationship between the two.

A differential equation is an equation involving an unknown function  $y = f(x)$  and one or more of its derivatives. A solution to a differential equation is a function  $y = f(x)$  that satisfies the differential equation when  $f$  and its derivatives are substituted into the equation.

Ordinary differential equation (ODE) is a peer reviewed journal dedicated to exploring differential and associated integral equations. The main themes include ordinary differential equations partial differential equations spectral theory of differential operators integral and integral differential equations and many more.

Learn differential equations differential equations separable equations exact equations integrating factors and homogeneous equations and more. Differential equations are the language in which the laws of nature are expressed. Understanding properties of solutions of differential equations is fundamental to much of contemporary science and engineering. Ordinary differential equations (ODEs) deal with functions of one variable which can often be thought of as showing how a quantity changes over time.

In this section we study what differential equations are how to verify their solutions some methods that are used for solving them and some examples of common and useful equations. General differential equations: Scientists and engineers must know how to model the world in terms of differential equations and how to solve those equations and interpret the solutions. This course focuses on the equations and techniques most useful in the field.

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