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Differential Equations. A Differential Equation is a n equation with a function and one or more of its derivatives:. Example: an equation with the function y and its derivative dy dx . Solving. We solve it when we discover the function y (or set of functions y).. There are many "tricks" to solving Differential Equations (if they can be solved!). But first: why?

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During the course we will study the fundamental properties of the main types of partial differential equations (hyperbolic, elliptic and parabolic) and discuss the various strategies available to obtain, when possible, solutions to the equations and to understand the properties of the equations. As the course is intended to be an introductory one, we restrict attention to so-called linear equations in two variables.

[Course: MTH6151 – Partial Differential Equations – 2020/21](#)
In mathematics, a differential equation is an equation that relates one or more 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.