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with a function and one or more of its derivatives: Example: an equation with the function y and its derivative $\frac{dy}{dx}$. 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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and are first introduced as part of basic calculus (or even precalculus, but without explaining what they are). Differential equations are much more advanced, and should be studied once you have a firm knowledge of both differential calculus and integral calculus.

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Differential Equations 1.1

Introduction Let $u = u(q, \dots, z_2)$ be a function of n independent variables z_1, \dots, z_n . A Partial Differential

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Equation (PDE for short) is an equation that contains the independent variables x_1, \dots, x_n , the dependent variable or the unknown function u and its partial derivatives up to some order. It has the form

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