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in mathematics a differential equation is an equation that relates one or more unknown functions and their derivatives 1 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

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understanding properties of solutions of differential equations is fundamental to much of contemporary science and engineering ordinary differential equations ode s deal with functions of one variable which can often be thought

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differential equations can describe how populations change how heat moves how springs vibrate how radioactive material decays and much more they are a very natural way to describe many things in the universe

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in this chapter we introduce the concept of differential equations a differential equation is an equation that provides a description of a function s derivative which means that it tells us the function s rate of change using this information we would like to learn as much as possible about the function itself

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a differential equation is a mathematical equation that relates some function with its derivatives in applications the functions usually represent physical quantities the derivatives represent

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☑ ☑ ☑ differential equations relate a function to its derivative that means the solution set is one or more functions not a value or set of values lots of phenomena change based on their current value including population sizes the

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