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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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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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