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in this chapter we will cover many of the major applications of derivatives applications included are determining absolute and relative minimum and maximum function values both with and without constraints sketching the graph of a function without using a computational aid determining the linear approximation of a function l hospital

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the most common usage of application of derivatives is seen in finding rate of change of a quantity finding the approximation value finding the equation of a tangent and normal to a curve finding maxima and minima and point of inflection determining increasing and decreasing functions derivative for rate of change of a quantity

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in this chapter we introduce derivatives we cover the standard derivatives formulas including the product rule quotient rule and chain rule as well as derivatives of polynomials roots trig functions inverse trig functions hyperbolic functions exponential functions and logarithm functions

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by deciding on $f(x)$ choosing the basepoint a and evaluating $f(a)$ 1 jg 4

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derivatives can be applied to real life problems that we find around us the use of derivatives is essential in machine learning for function optimization let s get started applications of derivatives

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the applications of derivatives are to determine the rate of change of a quantity with respect to another changing quantity to determine maximum minimum are saddle points of a function to determine the concavity and convexity of a function

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a derivative is a type of mathematical operation that transforms one function into another it is a way of relating a function to its slope or in other words to its rate of change over time very few functions have a constant slope so taking derivatives is very useful for the analysis of nonlinear functions

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derivatives describe the rate of change of quantities this becomes very useful when solving various problems that are related to rates of change in applied real world situations also learn how to apply derivatives to approximate function values and find limits using l'hopital's rule

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these applications include velocity and acceleration in physics marginal profit functions in business and growth rates in biology this limit occurs so frequently that we give this value a special name the derivative the process of finding a derivative is called differentiation

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