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there are rules we can follow to find many derivatives for example the slope of a constant value like 3 is always 0 the slope of a line like $2x$ is 2 or $3x$ is 3 etc and so on here are useful rules to help you work out the derivatives of many functions with examples below learn about a bunch of very useful rules like the power product and quotient rules that help us find derivatives quickly the derivative of a function describes the function's instantaneous rate of change at a certain point highlights learning objectives

3 3 1 state the constant constant multiple and power rules 3 3 2 apply the sum and difference rules to combine derivatives 3 3 3 use the product rule for finding the derivative of a product of functions 3 3 4 use the quotient rule for finding the derivative of a quotient of functions use the product rule for finding the derivative of a product of functions use the quotient rule for finding the derivative of a quotient of functions extend the power rule to functions with negative exponents use the quotient rule for finding the derivative of a quotient of functions extend the power rule to functions with negative exponents combine the differentiation rules to find the derivative of a polynomial or rational function fortunately we can develop a small collection of examples and rules that allow us to compute the derivative of almost any function we are likely to encounter many functions involve quantities raised to a constant power such as polynomials and more complicated

combinations like $y \sin x$ a rule a sequence usually has a rule which is a way to find the value of each term example the sequence 3 5 7 9 starts at 3 and jumps 2 every time as a formula saying starts at 3 and jumps 2 every time is fine but it doesn't help us calculate the 10th term 100th term or nth term where n could be any term number we want the product rule is used to construct the derivative of a product of two functions here are the rules to find the derivatives of trigonometric functions the derivative of $\sin x$ is $\frac{d}{dx} \sin x = \cos x$ the derivative of $\cos x$ is $\frac{d}{dx} \cos x = -\sin x$ the derivative of $\tan x$ is $\frac{d}{dx} \tan x = \sec^2 x$ rules for finding derivatives it is tedious to compute a limit every time we need to know the derivative of a function fortunately we can develop a small collection of examples and rules that allow us to compute the derivative of almost any function we are likely to encounter rules for finding derivatives it is tedious to compute a limit every time we need to know the derivative of a function fortunately we can develop a small collection of examples and rules that allow us to compute the derivative of almost any function we are likely to encounter the egyptian rhind papyrus c 1650 bce gives rules for finding the area of a circle and the volume of a truncated pyramid ancient greek geometers investigated finding tangents to curves the centre of gravity of plane and solid figures and the volumes of objects formed by revolving various curves about a fixed axis 6 rules for finding particular integral case 1 differential equations of higher order mks tutorials by manoj sir 489k subscribers subscribed 1 8k 151k views 4 years ago bilaspur 2 rules for finding complementary function case 1 differential equations of higher order mks tutorials by manoj sir 489k subscribers subscribed 1 9k 157k views 4 years ago may 3 2016 12 02 pm est the international rules based order established after world war ii seems to be under relentless pressure threatening its foundations existentially if so what if fundamental aims 1 1 the present standard minimum rules provide a set of basic principles to promote the use of non custodial measures as well as minimum safeguards for

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