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the word calculus comes from latin meaning small stone differential calculus cuts something into small pieces to find how it changes integral calculus joins integrates the small pieces together to find how much there is sam used differential calculus to cut time and distance into such small pieces that a pure answer came out multivariable calculus khan academy math multivariable calculus 4 800 mastery points available in course course challenge test your knowledge of the skills in this course thinking about multivariable functions mastery unavailable introduction to multivariable calculus vectors and matrices visualizing scalar valued functions the word calculus comes from latin meaning small stone because it is like understanding something by looking at small pieces differential calculus cuts something into small pieces to find how it changes integral calculus joins integrates the small pieces together to fundamental theorem of calculus and definite integrals reverse power rule indefinite integrals of common functions definite integrals of common functions integrating with u substitution integrating using long division and completing the square integrating using trigonometric identities proof videos differential equations 0 1100 mastery points 1 a method of computation or calculation in a special notation as of logic or symbolic logic b the mathematical methods comprising differential and integral calculus often used with the 2 calculation jan 21 2020 calculus is a branch of mathematics that involves the study of rates of change before calculus was invented all math was static it could only help calculate objects that were perfectly still but the universe is constantly moving and changing no objects from the stars in space to subatomic particles or cells in the body are always at rest calculus is now the basic entry point for anyone wishing to study physics chemistry biology economics finance or actuarial science calculus makes it possible to solve problems as diverse as tracking the position of a space shuttle or predicting the pressure building up behind a dam as the water rises computers have become a valuable tool for solving calculus problems that calculus originally called infinitesimal calculus or the calculus of infinitesimals is the mathematical study of continuous change in the same way that geometry is the study of shape and algebra is the study of generalizations of arithmetic operations calculus a branch of mathematics deals with the study of the rate of change was developed by newton and leibniz calculus definition calculus in mathematics is generally used in mathematical models to obtain optimal solutions and thus helps in understanding the changes between the values related by a function calculus is broadly classified into two different sections in calculus the quotient rule is a method of finding the derivative of a function that is the ratio of two differentiable functions let  $h = \frac{f}{g}$  where both  $f$  and  $g$  are differentiable and  $g \neq 0$  the quotient rule states that the derivative of  $h$  is  $h' = \frac{f'g - fg'}{g^2}$

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