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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 calculus is one of the most important branches of mathematics that deals with continuous change the two major concepts that calculus is based on are derivatives and integrals the derivative of a function is the measure of the rate of change of a function while integral is the measure of the area under the curve of the function calculus a branch of mathematics developed by newton and leibniz deals with the study of the rate of change calculus math is generally used in mathematical models to obtain optimal solutions it helps us to understand the changes between the values which are related by a 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 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 about changes differential calculus cuts something into small pieces to find how it changes learn more at introduction to derivatives integral calculus joins integrates the small pieces together to find how much there is learn more at introduction to integration learn differential calculus for free limits continuity derivatives and derivative applications full curriculum of exercises and videos if you re seeing this message it means we re having trouble loading external resources on our website calculus branch of mathematics concerned with the calculation of instantaneous rates of change differential calculus and the summation of infinitely many small factors to determine some whole integral calculus 1 a 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 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