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calculus 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 originally called infinitesimal calculus or the calculus of infinitesimals it has two major branches differential calculus and integral calculus calculus 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 find how much there is calculus and its applications is known for an approach that anticipates and meets students needs pairing clear explanations with carefully crafted figures to help you visualize concepts 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 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 the fundamental idea of calculus is to study change by studying instantaneous change by which we mean changes over tiny intervals of time and what good is that it turns out that such changes tend to be lots simpler than changes over finite intervals of time this means they are lots easier to model

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