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integral calculus is the study of integrals and the properties associated with them it is helpful in calculating f from f' i.e. from its derivative if a function say f is differentiable in any given

interval then f is defined in that interval it enables us to calculate the area under a curve for any function sep 22 2022 4 understand the concept of limits a limit tells you what happens when something is near infinity take the number 1 and divide it by 2 then keep dividing it by 2 again and again 1 would become 1/2 then 1/4 1/8 1/16 1/32 and so on each time the number gets smaller and smaller getting closer to zero 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 same used differential calculus to cut time and distance into

such small pieces that a pure answer came out
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 0 1800 mastery points
mean value theorem extreme value theorem and
critical points intervals on which a function is
increasing or decreasing relative local extrema
absolute global extrema concavity and inflection
points intro analyzing concavity and inflection
points second derivative test sketching curves
connecting f and f' 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 basic
calculus is the study of differentiation and
integration both concepts are based on the idea
of limits and functions some concepts like
continuity exponents are the foundation of
advanced calculus basic calculus explains about
the two different types of calculus called
differential calculus and integral calculus
calculus noun a method of computation or
calculation in a special notation as of logic or
symbolic logic the mathematical methods
comprising differential and integral calculus 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 find how much there is
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