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# Calculus

Thomas

Finney 9th

Edition

**The Handbook of  
Mathematics for  
Engineers and  
Scientists covers  
the main fields of  
mathematics and  
focuses on the**

**methods used for  
obtaining solutions  
of various classes  
of mathematical  
equations that  
underlie the  
mathematical  
modeling of  
numerous  
phenomena and  
processes in  
science and  
technology. To  
accommodate**

**different  
mathematical  
backgrounds, the  
preeminent  
authors outline the  
material in a  
simplified,  
schematic manner,  
avoiding special  
terminology  
wherever possible.  
Organized in  
ascending order of  
complexity, the**

**material is divided into two parts. The first part is a coherent survey of the most important definitions, formulas, equations, methods, and theorems. It covers arithmetic, elementary and analytic geometry, algebra,**

**differential and  
integral calculus,  
special functions,  
calculus of  
variations, and  
probability theory.  
Numerous specific  
examples clarify  
the methods for  
solving problems  
and equations. The  
second part  
provides many in-  
depth**

**mathematical  
tables, including  
those of exact  
solutions of various  
types of equations.  
This concise,  
comprehensive  
compendium of  
mathematical  
definitions,  
formulas, and  
theorems provides  
the foundation for  
exploring scientific**

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**and technological  
phenomena.**

**Ideal for the single-  
variable, one  
calculus course,  
Calculus I, 8/e,  
contains the first 6  
chapters of  
Calculus, 8/e. The  
text continues to  
offer instructors  
and students new  
and innovative  
teaching and**

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**learning resources.  
The Calculus series  
was the first to use  
computer-  
generated graphics  
(Third Edition), to  
include exercises  
involving the use of  
computers and  
graphing  
calculators (Fourth  
Edition), to be  
available in an  
interactive CD-**



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**ROM format (Fifth Edition), to be offered as a complete, online calculus course (Sixth Edition), and to offer a two-semester Calculus I with Precalculus text. Every edition of the book has made the mastery of traditional calculus skills a**

**priority, while embracing the best features of new technology and, when appropriate, calculus reform ideas. Now, the Eighth Edition is the first calculus program to offer algorithmic homework and testing created in Maple so that**

**answers can be  
evaluated with  
complete  
mathematical  
accuracy. Two  
primary objectives  
guided the authors  
in writing this  
book: to develop  
precise, readable  
materials for  
students that  
clearly define and  
demonstrate**

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**concepts and rules  
of calculus; and to  
design  
comprehensive  
teaching resources  
for instructors that  
employ proven  
pedagogical  
techniques and  
saves the  
instructor time.**

**The Eighth Edition  
continues to  
provide an evolving**

**range of  
conceptual,  
technological, and  
creative tools that  
enable instructors  
to teach the way  
they want to teach  
and students to  
learn they way they  
learn best. The  
Larson program  
offers a variety of  
options to address  
the needs of any**

**calculus course  
and any level of  
calculus student,  
enabling the  
greatest number of  
students to  
succeed. The  
explanations,  
theorems, and  
definitions have  
been thoroughly  
and critically  
reviewed. When  
necessary, changes**

**have been made to ensure that the text is pedagogically sound, mathematically precise, and comprehensible. The exercise sets have been carefully and extensively examined to ensure they cover all calculus topics**

**appropriately.**

**Many new exercises have been added at the suggestion of a number of calculus instructors. A variety of exercise types are included in each exercise set. Questions involving skills, writing, critical thinking, problem-**



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**solving,  
applications, and  
real-data  
applications are  
included  
throughout the  
text. Exercises are  
presented in a  
variety of question  
formats, including  
matching, free  
response,  
true/false,  
modeling, and fill-**

**in the blank. The Eduspace online resources have been integrated into a comprehensive learning system that combines numerous dynamic calculus resources with online homework and testing materials. The Integrated**

**Learning System  
addresses the  
changing needs of  
today's instructors  
and students.**

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the calculus course  
is presented in a  
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are available in  
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by Blackboard  
provides  
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online courses and  
content in multiple  
disciplines. By  
pairing the widely  
recognized tools of  
Blackboard with  
quality, text-  
specific content  
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to create all or part  
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to the odd-  
numbered text  
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**elementary level.**

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several variables,**

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functions, curve  
integrals,  
Green's theorem,  
multiple  
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superior  
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programs.  
Multi-phase flows  
are part of our**

**natural  
environment  
such as  
tornadoes,  
typhoons, air and  
water pollution  
and volcanic  
activities as well  
as part of  
industrial  
technology such  
as power plants,**

**combustion  
engines,  
propulsion  
systems, or  
chemical and  
biological  
industry. The  
industrial use of  
multi-phase  
systems requires  
analytical and  
numerical**

**strategies for  
predicting their  
behavior. In its  
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monograph  
contains theory,  
methods and  
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experience for  
describing  
complex**



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Mathematical***

***Thinking Back by***

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proofs to real***

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material, the text  
covers Riemann-  
Stieltjes  
integrals, Fourier  
analysis, metric  
spaces and  
applications, and  
differential  
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and logic to  
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removes the  
material on  
wavelet theory,***

***measure theory,  
differential forms,  
and the method  
of  
characteristics. It  
also adds a  
chapter on  
normed linear  
spaces and  
includes more  
examples and  
varying levels of***



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***solid foundation***

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further  
exploration of  
measure theory,  
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analysis, and  
beyond.***

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and detection,  
detectors,  
measuring  
instruments, and  
concepts in  
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revised second  
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an updated***

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modern  
radiometry and  
photometry,  
including brand  
new sections on  
applications and  
developments in  
light sources and  
scientific  
instruments for  
measuring***

***radiation and  
light. Engineers  
are also provided  
with an exciting  
new chapter on  
the use of  
computerized  
optical ray  
tracing for  
“virtual”  
experiments on  
optical systems.***

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Physics, and  
Engineering  
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practical  
approach to the  
basic notions,  
formulas,  
equations,  
problems,***

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***theorems,  
methods, and  
laws that most  
frequently occur  
in scientific and  
engineering  
applications and  
university  
education. The  
authors pay  
special attention  
to issues that***



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For Dummies, 2nd  
Edition

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While this version  
features a new  
Dummies cover and  
design, the content is  
the same as the prior  
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not be considered a  
new or updated

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this guide helps you  
build a stronger  
foundation with a solid  
understanding of the  
big ideas at work.

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math book leads you  
step-by-step through  
each concept,  
operation, and  
solution, explaining  
the "how" and "why"  
in plain English  
instead of math-

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proves that if you can  
master those classes,  
you can tackle  
calculus and win.

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Explores sequences,  
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common functions

Instructs you how to  
approximate area with  
integration Features

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things to remember,  
things to forget, and  
things you can't get  
away with Stop  
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challenge. With this  
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guide, you'll gain the  
skills and confidence  
that make all the  
difference. Calculus  
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and the backup you  
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to do with uniform  
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uniform limits in the  
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integration. From the

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subjects ranging from  
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limit their futures by  
avoiding this subject  
like the plague.

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differential and



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quickly and  
painlessly. Your  
"calculus anxiety" will  
rapidly disappear as  
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work problem leads  
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an incorrect response  
is followed by

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powers of  $x$ ; theorems  
on differentiation,  
antidifferentiation;  
the chain rule;  
trigonometric  
functions; more.  
Examples. 1967  
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You Missed

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text offers a  
balanced  
approach that  
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*calculus with the best aspects of reform, including creative teaching and learning techniques such as the integration of technology, the use of real-life applications, and mathematical models. The*

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*Calculus with  
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Alternate, 6/e,  
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approach to  
trigonometry for  
those instructors  
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introduce it later  
in their courses.  
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worked-out*



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*solutions to all the  
odd-numbered  
exercises in the  
text. Part I  
corresponds to  
Chapters 1-11 in  
Thomas' Calculus,  
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*This fifth edition  
of Lang's book  
covers all the  
topics*

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*traditionally  
taught in the first-  
year calculus  
sequence. Divided  
into five parts,  
each section of A  
FIRST COURSE  
IN CALCULUS  
contains examples  
and applications  
relating to the  
topic covered. In*

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*addition, the rear  
of the book  
contains detailed  
solutions to a  
large number of  
the exercises,  
allowing them to  
be used as  
worked-out  
examples -- one of  
the main  
improvements*

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*over previous  
editions.*

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resource book*

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*Workbook*

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*Undergraduate*

*Analysis*

*Calculus For*

*Dummies*

*The main goal of*

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*this third  
edition is to  
realign with the  
changes in the  
Advanced  
Placement (AP )  
calculus  
syllabus and the  
new type of AP  
exam questions.  
We have also  
more carefully*

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*aligned*

*examples and  
exercises and  
updated the  
data used in  
examples and  
exercises.*

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are now  
provided two or  
three times in*

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*college-level*

*calculus*

*textbook*

*features end-of-*

*chapter review*

*questions,*

*practice*

*exercises, and*

*applications and*

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instructors who  
prefer the  
flexibility of a  
text that is  
streamlined  
without  
compromising  
the necessary  
coverage for a*

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early  
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presentation of  
calculus,  
University  
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text that  
students will*

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*Applications of*

*Derivatives;*

*Integration;*

*Techniques of*

*Integration;*

*Applications of*

*Definite*

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*Integrals;  
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Series; Polar  
Coordinates and  
Conics; Vectors  
and the  
Geometry of  
Space; Vector-  
Valued  
Functions and  
Motion in*

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interested in  
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history of  
innovation in  
the calculus  
market, the La  
rson/Edwards'  
CALCULUS**

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students and  
professors for  
solid and  
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course program  
that carefully**

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teaching and  
learning. For  
use in or out  
of the  
classroom, the  
companion**

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learning.  
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solution  
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Chris  
McMullen,  
Ph.D., has**

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experience  
teaching math  
skills to  
physics  
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prepared this  
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workbook (with  
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to every**

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mastering  
calculus. This  
workbook  
covers a  
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essential  
calculus  
skills,  
including:

**derivatives of  
polynomials,  
trig  
functions,  
exponentials,  
and logarithms  
the chain  
rule, product  
rule, and  
quotient rule  
second  
derivatives**



**how to find  
the extreme  
values of a  
function  
limits,  
including  
l'Hopital's  
rule antideriv  
atives of  
polynomials,  
trig  
functions,**

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**exponentials,  
and logarithms  
definite and  
indefinite  
integrals  
techniques of  
integration,  
including  
substitution,  
trig sub, and  
integration by  
parts multiple**

**integrals** The  
goal of this  
workbook isn't  
to cover every  
possible topic  
from calculus,  
but to focus  
on the most  
essential  
skills needed  
to apply  
calculus to

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**other**

**subjects, such  
as physics or  
engineering**

**Calculus And  
Analytical Geo  
metry, 9/e Pears  
on Education  
India**

**Calculus of  
Several  
Variables**

*Page 100/125*

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**Calculus on  
Manifolds  
Calculus and  
Analytic  
Geometry  
Multiphase  
Flow Dynamics  
1  
Elements of  
Calculus and  
Analytic  
Geometry**

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**This edition of  
Swokowski's  
text is truly as  
its name  
implies: a  
classic.  
Groundbreakin  
g in every way  
when first  
published, this  
book is a  
simple,  
straightforward**

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**, direct calculus  
text. It's  
popularity is  
directly due to  
its broad use of  
applications,  
the easy-to-  
understand  
writing style,  
and the wealth  
of examples and  
exercises which  
reinforce conce**

**ptualization of  
the subject  
matter. The  
author wrote  
this text with  
three objectives  
in mind. The  
first was to  
make the book  
more student-  
oriented by  
expanding  
discussions and**



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**providing more  
examples and  
figures to help  
clarify  
concepts. To  
further aid  
students,  
guidelines for  
solving  
problems were  
added in many  
sections of the  
text. The**

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**second**

**objective was to stress the usefulness of calculus by means of modern applications of derivatives and integrals. The third objective, to make the text as accurate**

**and error-free  
as possible, was  
accomplished  
by a careful  
examination of  
the exposition,  
combined with  
a thorough  
checking of  
each example  
and exercise.  
In this version  
of his best-**

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**selling text,  
Stewart has  
reorganized the  
material so  
professors can  
teach  
transcendental  
functions (more  
than just  
trigonometric  
functions)  
early, before  
the definite**

**integral. This  
variation  
introduces the  
derivative of the  
log and  
exponential  
functions at the  
same time as  
the polynomial  
functions and  
develops other  
transcendental  
functions prior**

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**to the  
introduction of  
the definite  
integral..In the  
new Third  
Edition, Stewart  
retains the  
focus on  
problem  
solving, the  
meticulous  
accuracy, the  
patient**

**explanations,  
and the  
carefully  
graded  
problems that  
have made this  
text work so  
well for a wide  
range of  
students. In the  
new edition,  
Stewart has  
increased his**

**emphasis on  
technology and  
innovation and  
has expanded  
his focus on  
problem-solving  
and  
applications.**

**..When writing  
his previous  
editions,  
Stewart set out  
to bring some**



**of the spirit of  
Polya to his  
presentation.  
This resulted in  
the "strategy  
sections" in the  
First Edition  
and the  
"Problems  
Plus" and  
"Applications  
Plus" sections  
in the Second**

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**Edition. Now in  
the Third  
Edition, he  
extends the  
idea further  
with a new  
section on  
"Principles of  
Problem  
Solving" and  
new extended  
examples in the  
"Problems**

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**Plus" and  
"Applications  
Plus" sections.  
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a serious  
attempt to help  
students reason  
mathematically.  
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Book: No other  
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**success of  
Halliday,  
Resnick and  
Walker's  
Fundamentals  
of Physics! In a  
breezy, easy-to-  
understand  
style the book  
offers a solid  
understanding  
of fundamental  
physics**

*Page 116/125*

**concepts, and  
helps readers  
apply this  
conceptual  
understanding  
to quantitative  
problem  
solving. The  
extended  
edition provides  
coverage of  
developments  
in Physics in**

**the last 100  
years,  
including:  
Einstein and  
Relativity, Bohr  
and others and  
Quantum  
Theory, and the  
more recent  
theoretical  
developments  
like String  
Theory. This**

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**book offers a  
unique  
combination of  
authoritative  
content and  
stimulating  
applications.**

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successfully

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ideas of calculus

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