

Math1014 Calculus II

A Short Summary of Basic Calculus in MATH1012/MATH1013

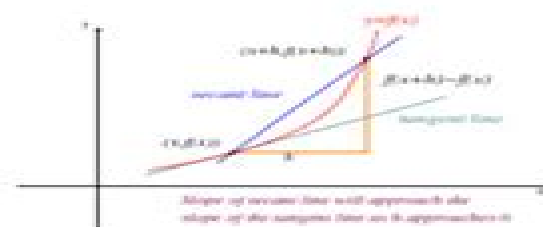
Derivatives

Notation:

$$\frac{dF}{dx}, F'(x), y' \text{ or } \frac{dy}{dx}, \text{ etc.}$$

Meaning:

$$F'(x) = \frac{dF}{dx} = \lim_{h \rightarrow 0} \underbrace{\frac{F(x+h) - F(x)}{h}}_{\substack{\text{slope of the secant line through} \\ (x, F(x)) \text{ and } (x+h, F(x+h))}} \\ = \text{slope of tangent line at } (x, F(x)) \\ = \text{rate of change of } F$$



Basic derivatives:

$$\frac{d(\text{constant})}{dx} = 0,$$

$$\frac{dx^p}{dx} = px^{p-1},$$

$$\frac{d \ln |x|}{dx} = \frac{1}{x},$$

$$\frac{de^x}{dx} = e^x$$

$$\frac{d \sin x}{dx} = \cos x,$$

$$\frac{d \cos x}{dx} = -\sin x,$$

$$\frac{d \tan x}{dx} = \sec^2 x,$$

$$\frac{d \sec x}{dx} = \sec x \tan x$$

$$\frac{d \sin^{-1} x}{dx} = \frac{1}{\sqrt{1-x^2}},$$

$$\frac{d \cos^{-1} x}{dx} = -\frac{1}{\sqrt{1-x^2}},$$

$$\frac{d \tan^{-1} x}{dx} = \frac{1}{1+x^2}.$$

(Each derivative is a limit!)

Differentiation Rules:

“TERM BY TERM”: $[af(x) + bg(x)]' = af'(x) + bg'(x)$ for any constants a, b

PRODUCT RULE: $[f(x)g(x)]' = f'(x)g(x) + f(x)g'(x)$

QUOTIENT RULE: $\left[\frac{f(x)}{g(x)} \right]' = \frac{g(x)f'(x) - f(x)g'(x)}{[g(x)]^2}$

CHAIN RULE: $\frac{d}{dx} f(g(x)) = f'(g(x))g'(x)$

Antiderivatives/Indefinite Integrals

Notation: $\int f(x)dx$, which means finding all “antiderivatives” of f

$\int f(x)dx = F(x) + C$ is just another way to say $\frac{dF}{dx} = f(x)$, where C is an arbitrary constant.

Example: $\int e^{2x} dx = \frac{1}{2}e^{2x} + C$, because $\frac{d}{dx} \left(\frac{1}{2}e^{2x} \right) = \frac{1}{2}e^{2x} \frac{d(2x)}{dx} = e^{2x}$

(By Chain Rule, $\frac{d}{dx} e^{g(x)} = e^{g(x)} \frac{dg}{dx}$)

Definite Integrals

Notation: $\int_a^b f(x)dx$, where f is a continuous function on $[a, b]$.

Meaning: $\int_a^b f(x)dx = \lim_{n \rightarrow \infty} \underbrace{\frac{b-a}{n} [f(c_1) + f(c_2) + \dots + f(c_n)]}_{\text{“Riemann sum”: sum of +ve/-ve “rectangular areas”}}$

based on a partition of $[a, b]$ into n subintervals of equal length,

with c_i a point chosen from the i -th subinterval



Example: $\int_0^1 x dx = \lim_{n \rightarrow \infty} \frac{1}{n} \left[\frac{1}{n} + \frac{2}{n} + \dots + \frac{n}{n} \right] = \lim_{n \rightarrow \infty} \frac{1}{n^2} \frac{n(n+1)}{2} = \frac{1}{2}$
 where $c_1 = \frac{1}{n}$, $c_2 = \frac{2}{n}$, ..., $c_n = \frac{n}{n}$ are the right endpoints of the subintervals.
 (The integral is of course just the area of a triangle!)

Pam Productions Review Calculus

New York Times Theater Reviews



Pam Productions Review Calculus:

The New York Times Film Reviews 1999-2000 New York Times Theater Reviews, 2001-12 From the Oscar winning blockbusters *American Beauty* and *Shakespeare in Love* to Sundance oddities like *American Movie* and *The Tao of Steve* to foreign films such as *All About My Mother* the latest volume in this popular series features a chronological collection of facsimiles of every film review and awards article published in *The New York Times* between January 1999 and December 2000 Includes a full index of personal names titles and corporate names This collection is an invaluable resource for all libraries *Media Review*, 1984 **Publications Stocked by the Marine Corps (indexed by Distribution)**, 1985

The New York Times Theater Reviews 1997-1998 Times Books, 2014-10-13 From the musical hits *Lion King* and *Bring In da Noise* *Bring In da Funk* to important new off Broadway plays such as *Beauty Queen of Leenane* and *Wit* the latest volume in this popular series features a chronological collection of facsimiles of every theater review and awards article published in the *New York Times* between January 1997 and December 1998 Includes a full index of personal names titles and corporate names Like its companion volume the *New York Times Film Reviews 1997-1998* this collection is an invaluable resource for all libraries **Illinois ISAT Grade 8 Math**, 2012-04-27 REA Real review Real practice Real results REA's Illinois Grade 8 ISAT Math Study Guide Fully aligned with the Illinois State Board of Education Learning Standards Are you prepared to excel on this state high stakes assessment exam Take the diagnostic Pretest and find out what you know and what you should know Use REA's advice and tips to ready yourself for proper study and practice Sharpen your knowledge and skills The book's full subject review refreshes knowledge and covers all topics on the official exam and includes numerous examples diagrams and charts to illustrate and reinforce key math lessons Smart and friendly lessons reinforce necessary skills Key tutorials enhance specific abilities needed on the test Targeted drills increase comprehension and help organize study Color icons and graphics highlight important concepts and tasks Practice for real Create the closest experience to test day conditions with a full length practice Posttest Chart your progress with detailed explanations of each answer Boost confidence with test taking strategies and focused drills Ideal for Classroom Family or Solo Test Preparation REA has helped generations of students study smart and excel on the important tests REA's study guides for state required exams are teacher recommended and written by experts who have mastered the test *SAT Subject Test: Math Level 2 Crash Course* Licari Meredith, Linda Hardman, Virginia Ogozalek, 2013-07-04 REA's Crash Course for the SAT Math Level 2 Subject Test Gets You a Higher Score in Less Time Our Crash Course is perfect for the time crunched student the last minute studier or anyone who wants a refresher on the subject Are you crunched for time Have you started studying for your SAT Math Level 2 Subject Test yet How will you memorize everything you need to know before the exam Do you wish there was a fast and easy way to study for the test AND raise your score If this sounds like you don't panic SAT Math Level 2 Crash Course is just what you need Crash Course gives you Targeted Focused Review Study Only What You Need to Know The Crash Course is based

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Landers Film & Video Reviews ,1991 American Women's History on Film Rosanne Welch,Peg A. Lamphier,2022-11-07 By exploring a range of films about American women this book offers readers an opportunity to engage in both history and film in a new way embracing representation diversity and historical context Throughout film history stories of women achieving in American history appear few and far between compared to the many epic tales of male achievement This book focuses largely on films written by women and about women who tackled the humanist issues of their day and mostly won Films about women are important for all viewers of all genders because they remind us that the American Experience is not just male and white This book examines 10 films featuring diverse depictions of women and women s history and encourages readers to discern how and where these films deviate from historical accuracy Covering films from the 1950s all the way to the 2010s this text is invaluable for students and general readers who wish to interrogate the way women s history appears on the big screen **The New York Times Theater Reviews 1997-1998** Times Books,2001-01-02 First Published in 2001 Routledge is an imprint of Taylor Francis an informa company

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Table of Contents Pam Productions Review Calculus

1. Understanding the eBook Pam Productions Review Calculus
 - The Rise of Digital Reading Pam Productions Review Calculus
 - Advantages of eBooks Over Traditional Books
2. Identifying Pam Productions Review Calculus
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pam Productions Review Calculus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pam Productions Review Calculus
 - Personalized Recommendations
 - Pam Productions Review Calculus User Reviews and Ratings

- Pam Productions Review Calculus and Bestseller Lists
- 5. Accessing Pam Productions Review Calculus Free and Paid eBooks
 - Pam Productions Review Calculus Public Domain eBooks
 - Pam Productions Review Calculus eBook Subscription Services
 - Pam Productions Review Calculus Budget-Friendly Options
- 6. Navigating Pam Productions Review Calculus eBook Formats
 - ePub, PDF, MOBI, and More
 - Pam Productions Review Calculus Compatibility with Devices
 - Pam Productions Review Calculus Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pam Productions Review Calculus
 - Highlighting and Note-Taking Pam Productions Review Calculus
 - Interactive Elements Pam Productions Review Calculus
- 8. Staying Engaged with Pam Productions Review Calculus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pam Productions Review Calculus
- 9. Balancing eBooks and Physical Books Pam Productions Review Calculus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pam Productions Review Calculus
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pam Productions Review Calculus
 - Setting Reading Goals Pam Productions Review Calculus
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pam Productions Review Calculus
 - Fact-Checking eBook Content of Pam Productions Review Calculus
 - Distinguishing Credible Sources

-
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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