

Calculus 2 Long Exam 2 Formulas

Integrals yielding to trig functions:

- $\int \frac{du}{\sqrt{1-u^2}} = \sin^{-1} u + C$
- $\int \frac{du}{u^2+1} = \tan^{-1} u + C$
- $\int \frac{du}{u\sqrt{u^2-1}} = \sec^{-1} u + C$
- $\int \frac{du}{\sqrt{a^2-u^2}} = \sin^{-1} \frac{u}{a} + C$
- $\int \frac{du}{u^2+a^2} = \frac{1}{a} \tan^{-1} \frac{u}{a} + C$
- $\int \frac{du}{u\sqrt{u^2-a^2}} = \frac{1}{a} \sec^{-1} \frac{u}{a} + C$

Integration of hyperbolic functions:

- $\int \sinh u \, du = \cosh u + C$
- $\int \cosh u \, du = \sinh u + C$
- $\int \operatorname{sech}^2 u \, du = \tanh u + C$
- $\int \operatorname{csch}^2 u \, du = -\coth u + C$
- $\int \operatorname{sech} u \tanh u \, du = -\operatorname{sech} u + C$
- $\int \operatorname{csch} u \coth u \, du = -\operatorname{csch} u + C$

Properties of hyperbolic functions:

$$\triangleright \sinh x = \frac{e^x - e^{-x}}{2}$$

$$\triangleright \cosh x = \frac{e^x + e^{-x}}{2}$$

$$\triangleright \tanh x = \frac{e^x - e^{-x}}{e^x + e^{-x}}$$

$$\triangleright \coth x = \frac{e^x + e^{-x}}{e^x - e^{-x}}$$

$$\triangleright \operatorname{sech} x = \frac{2}{e^x + e^{-x}}$$

$$\triangleright \operatorname{csch} x = \frac{2}{e^x - e^{-x}}$$

$$\triangleright \cosh^2 x - \sinh^2 x = 1$$

$$\triangleright 1 - \tanh^2 x = \operatorname{sech}^2 x$$

$$\triangleright 1 - \coth^2 x = -\operatorname{csch}^2 x$$

$$\triangleright \cosh x + \sinh x = e^x$$

$$\triangleright \cosh x - \sinh x = e^{-x}$$

$$\triangleright \sinh(x+y) = \sinh x \cosh y + \cosh x \sinh y$$

$$\triangleright \cosh(x+y) = \cosh x \cosh y + \sinh x \sinh y$$

$$\triangleright \sinh 2x = 2 \sinh x \cosh x$$

$$\triangleright \cosh 2x = \cosh^2 x + \sinh^2 x$$

$$7. \int \frac{du}{\sqrt{u^2+1}} = \sinh^{-1} u + C$$

$$8. \int \frac{du}{\sqrt{u^2-1}} = \cosh^{-1} u + C; |u| > 1$$

$$9. \int \frac{du}{1-u^2} = \tanh^{-1} u + C; |u| < 1$$

$$10. \int \frac{du}{1+u^2} = \coth^{-1} u + C; |u| > 1$$

$$11. \int \frac{du}{\sqrt{u^2+a^2}} = \sinh^{-1} \frac{u}{a} + C$$

$$12. \int \frac{du}{\sqrt{u^2-a^2}} = \cosh^{-1} \frac{u}{a} + C$$

$$13. \int \frac{du}{a^2-u^2} = \frac{1}{2a} \tanh^{-1} \frac{2u}{a} + C; |u| < a$$

$$14. \int \frac{du}{a^2+u^2} = \frac{1}{2a} \coth^{-1} \frac{2u}{a} + C; |u| > a$$

Integration by parts:

$$1. uv - \int v \, du$$

Cases of integration:

- $\int \sin^n x \, dx$ or $\int \cos^n x \, dx; n = +\text{odd}$
 - $\int \sin^n x \, dx = (\sin^{n-1} x)(\sin x \, dx)$
 $= (\sin^2 x)^{\frac{n-1}{2}} (\sin x) \, dx$
 $= (1 - \cos^2 x)^{\frac{n-1}{2}} (\sin x) \, dx$
 - $\int \cos^n x \, dx = (\cos^{n-1} x)(\cos x \, dx)$
 $= (\cos^2 x)^{\frac{n-1}{2}} (\cos x) \, dx$
 $= (1 - \sin^2 x)^{\frac{n-1}{2}} (\cos x) \, dx$
- $\int \sin^n x \cos^m x \, dx$ where one exponent is +odd
 - $\int \sin^n x \cos^m x \, dx = \sin^{n-1} x \cos^{m-1} x (\sin x) \, dx$
 $= (\sin^2 x)^{\frac{n-1}{2}} \cos^{m-1} x (\sin x) \, dx$
 $= (1 - \cos^2 x)^{\frac{n-1}{2}} \cos^{m-1} x (\sin x) \, dx$
 - $\int \sin^n x \cos^m x \, dx = \sin^n x \cos^{m-1} x (\cos x) \, dx$
 $= \sin^n x (\cos^2 x)^{\frac{m-1}{2}} (\cos x) \, dx$
 $= \sin^n x (1 - \sin^2 x)^{\frac{m-1}{2}} (\cos x) \, dx$
- $\int \sin^n x \cos^m x \, dx$ exponent is +even
 - $\int \sin^n x \, dx = (\sin^2 x)^{\frac{n}{2}} dx = \left(\frac{1-\cos 2x}{2}\right)^{\frac{n}{2}} dx$
 - $\int \cos^m x \, dx = (\cos^2 x)^{\frac{m}{2}} dx = \left(\frac{1+\cos 2x}{2}\right)^{\frac{m}{2}} dx$
 - $\int \sin^n x \cos^m x \, dx = (\sin^2 x)^{\frac{n}{2}} (\cos^2 x)^{\frac{m}{2}} dx$
 $= \left(\frac{1-\cos 2x}{2}\right)^{\frac{n}{2}} \left(\frac{1+\cos 2x}{2}\right)^{\frac{m}{2}} dx$
- $\int \tan^n x \, dx$ or $\int \cot^n x \, dx; n = +\text{integer}$
 - $\int \tan^n x \, dx = \tan^{n-2} x \sec^2 x \, dx$
 $= \tan^{n-2} x (\sec^2 x - 1) \, dx$
 - $\int \cot^n x \, dx = \cot^{n-2} x \cot^2 x \, dx$
 $= \cot^{n-2} x (\csc^2 x - 1) \, dx$
- $\int \sec^n x \, dx$ or $\int \csc^n x \, dx; n = +\text{even}$
 - $\int \sec^n x \, dx = \sec^{n-2} x \sec^2 x \, dx$
 $= (\sec^2 x)^{\frac{n-2}{2}} x (\sec^2 x) \, dx$
 $= (\tan^2 x + 1)^{\frac{n-2}{2}} x (\sec^2 x) \, dx$
 - $\int \csc^n x \, dx = \csc^{n-2} x \csc^2 x \, dx$
 $= (\csc^2 x)^{\frac{n-2}{2}} x (\csc^2 x) \, dx$
 $= (\cot^2 x + 1)^{\frac{n-2}{2}} x (\csc^2 x) \, dx$
- $\int \tan^n x \sec^m x \, dx$ | $\int \cot^n x \csc^m x \, dx$ $n \rightarrow +\text{even}$
 - $\int \tan^n x \sec^m x \, dx = \tan^{n-2} x \sec^{m-2} x (\sec^2 x) \, dx$
 $= \tan^{n-2} x (\tan^2 x + 1)^{\frac{m-2}{2}} (\sec^2 x) \, dx$
 - $\int \cot^n x \csc^m x \, dx = \cot^{n-2} x \csc^{m-2} x (\csc^2 x) \, dx$
 $= \cot^{n-2} x (\cot^2 x + 1)^{\frac{m-2}{2}} (\csc^2 x) \, dx$
- $\int \tan^n x \sec^m x \, dx$ | $\int \cot^n x \csc^m x \, dx$ $n \rightarrow +\text{odd}$
 - $\int \tan^n x \sec^m x \, dx = \tan^{n-1} x \sec^{m-1} x (\sec x \tan x) \, dx$
 $= (\tan^2 x)^{\frac{n-1}{2}} \sec^{m-1} x (\sec x \tan x) \, dx$
 $= (\sec^2 x - 1)^{\frac{n-1}{2}} \sec^{m-1} x (\sec x \tan x) \, dx$
 - $\int \cot^n x \csc^m x \, dx = \cot^{n-1} x \csc^{m-1} x (\csc x \cot x) \, dx$
 $= (\cot^2 x)^{\frac{n-1}{2}} \csc^{m-1} x (\csc x \cot x) \, dx$
 $= (\csc^2 x - 1)^{\frac{n-1}{2}} \csc^{m-1} x (\csc x \cot x) \, dx$
- $\int \sec^n x \, dx$ or $\int \csc^n x \, dx; n = +\text{odd}$
 - $u = \sec^{n-2} x$ & $dv = \sec^2 x \, dx$
 - $u = \csc^{n-2} x$ & $dv = \csc^2 x \, dx$
- $\int \tan^n x \sec^m x \, dx$ | $\int \cot^n x \csc^m x \, dx$ $n \rightarrow +\text{even}; m \rightarrow +\text{odd}$
 - $\int \tan^n x \sec^m x \, dx = (\tan^2 x)^{\frac{n}{2}} \sec^m x \, dx$
 $= (\sec^2 x - 1)^{\frac{n}{2}} \sec^m x \, dx$
 - $\int \cot^n x \csc^m x \, dx = (\cot^2 x)^{\frac{n}{2}} \csc^m x \, dx$
 $= (\csc^2 x - 1)^{\frac{n}{2}} \csc^m x \, dx$

Calculus 2 E

William Swan Sonnenschein



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Table of Contents Calculus 2 E

1. Understanding the eBook Calculus 2 E
 - The Rise of Digital Reading Calculus 2 E
 - Advantages of eBooks Over Traditional Books
2. Identifying Calculus 2 E
 - 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 Calculus 2 E
 - User-Friendly Interface
4. Exploring eBook Recommendations from Calculus 2 E
 - Personalized Recommendations
 - Calculus 2 E User Reviews and Ratings
 - Calculus 2 E and Bestseller Lists

5. Accessing Calculus 2 E Free and Paid eBooks
 - Calculus 2 E Public Domain eBooks
 - Calculus 2 E eBook Subscription Services
 - Calculus 2 E Budget-Friendly Options
6. Navigating Calculus 2 E eBook Formats
 - ePub, PDF, MOBI, and More
 - Calculus 2 E Compatibility with Devices
 - Calculus 2 E Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Calculus 2 E
 - Highlighting and Note-Taking Calculus 2 E
 - Interactive Elements Calculus 2 E
8. Staying Engaged with Calculus 2 E
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Calculus 2 E
9. Balancing eBooks and Physical Books Calculus 2 E
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Calculus 2 E
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Calculus 2 E
 - Setting Reading Goals Calculus 2 E
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Calculus 2 E
 - Fact-Checking eBook Content of Calculus 2 E
 - 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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