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# EXAM Notes®

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# CALCULUS II

## COMPUTING ANTIDERIVATIVES

**A.** $\int \frac{dx}{x} = \ln|x| + c$.

Example: $\int \frac{6x^3}{x^4+1}\,dx$

If $f(x) = x^4 + 1$, then $f'(x) = 4x^3$.

Therefore, $\int \frac{6x^3}{x^4+1}\,dx = 6\ln|x^4+1| + c = 6\ln(x^4+1) + c$.

**B. SUBSTITUTION TECHNIQUE**

Evaluate: $\int \frac{x^3}{\sqrt{1+x^2}}\,dx$

$$\int \frac{x^3}{\sqrt{1+x^2}}\,dx = \frac{1}{2}\int \frac{2x^3}{\sqrt{1+x^2}}\,dx$$

Now, let $u = 1 + x^2$. So, $du = 2x^2\,dx$.

Therefore, $\frac{1}{2}\int \frac{2x^3}{\sqrt{1+x^2}}\,dx = \frac{1}{2}\int \frac{du}{\sqrt{u}}$

$$= \frac{1}{2}\int u^{-1/2}\,du$$

$$= \frac{1}{2}\cdot\frac{u^{1/2}}{1/2} + c$$

$$= \frac{2}{2}u^{1/2} + c$$

$$= \frac{2}{2}\sqrt{1+x^2} + c$$

**C. INTEGRATION BY PARTS**

1. If $u$ and $v$ are differentiable functions and $\int v\,du$ is an antiderivative of $v\,du$, then $uv - \int v\,du$ is an antiderivative of $u\,dv$. In symbols:

$$\int u\,dv = uv - \int v\,du$$

or in the notation of differentials

$$\int d(uv) = uv = \int v\,du + \int u\,dv$$

Example: $\int xe^x\,dx$

$$\int xe^x\,dx = xe^x - \int e^x\,dx = xe^x - e^x.$$

Here $u = x$, $dv = e^x\,dx$, $du = dx$, $v = e^x$.

2. $\int e^x \sin x\,dx = ?$ Apply repeated integration by parts.

3. For $\int \frac{dx}{x^2\sqrt{x^2+b^2}}$, rewrite as

$$\int x^{-2}\frac{dx}{\sqrt{x^2+b^2}} = \int x^{-2}\frac{dx}{x\sqrt{1+\left(\frac{b}{x}\right)^2}}$$

and use the substitution $u = \frac{b}{x}$.

**D. INTEGRATION OF RATIONAL FUNCTIONS BY PARTIAL FRACTIONS**

Example: $\int \frac{4x-7}{x^2-3x+2}\,dx = ?$

$$\frac{4x-7}{x^2-3x+2} = \frac{A}{x-1} + \frac{B}{x-2}$$

Therefore, $\int \frac{4x-7}{x^2-3x+2}\,dx = \int \frac{-3}{x-1}\,dx + \int \frac{7}{x-2}\,dx$

$$= -3\ln|x-1| + 7\ln|x-2| + c$$

**E. INTEGRATING POWERS OF TRIGONOMETRIC FUNCTIONS**

1. To integrate $\int \sin^2\theta\,d\theta$ use the identity $\sin^2\theta = \frac{1-\cos 2\theta}{2}$.

2. To integrate $\int \sin^m\theta \cos^n\theta\,d\theta$, where $m$ and $n$ are both even:

Rewrite as $\int (\sin^2\theta)^{\frac{m}{2}} (\cos^2\theta)^{\frac{n}{2}}\,d\theta$, so $\frac{m}{2}$ and $\frac{n}{2}$ are integers. Then express $\cos^{\frac{n}{2}}\theta$ in terms of $\sin^2\theta$ and use the substitution $u = \sin\theta$.

3. To integrate $\int \sin^m\theta \cos^n\theta\,d\theta$, where $m$ is odd: Rewrite as

$$\int \sin^m\theta \cos^n\theta\,d\theta$$

$$= \int \sin^{m-1}\theta \cos^n\theta \sin\theta\,d\theta$$

$$= \int (1-\cos^2\theta)^{\frac{m-1}{2}} \cos^n\theta \sin\theta\,d\theta.$$

Now use the substitution $u = \cos\theta$ as you have done.

$$= \int (1-u^2)^{\frac{m-1}{2}} u^n (-du).$$

A similar approach works if the integrand is a power of cosine.

## TRIGONOMETRIC SUBSTITUTION

When finding $\int f(x)\,dx$ where $f(x)$ is expressed in terms of $\sqrt{x^2-a^2}$ or $\sqrt{x^2+a^2}$ or $\sqrt{a^2-x^2}$, use the following rule:

| When expression | Trigonometric substitution |
|---|---|
| $\sqrt{x^2-a^2}$ | $x = a\sec\theta$ |
| $\sqrt{x^2+a^2}$ | $x = a\tan\theta$ |
| $\sqrt{a^2-x^2}$ | $x = a\sin\theta$ |

## APPLICATION OF THE INTEGRAL

**A. APPLICATION**

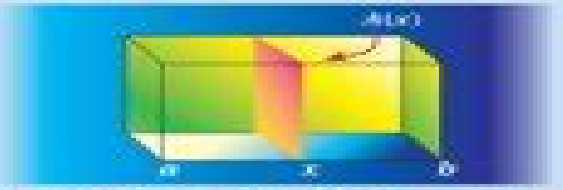
Let $f$ and $g$ be two continuous functions such that $f(x) \geq g(x)$ for all $x$ in the interval $[a,b]$. Let $R$ be the region between the curve $y = f(x)$ and the curve $y = g(x)$ for $x$ in $[a,b]$. Then, the area of $R$ is given by

$$\text{Area} = \int_a^b |f(x) - g(x)|\,dx$$

**B. COMPUTING VOLUME BY PARALLEL CROSS SECTIONS**

To find the volume of some solid, follow the steps below:

1. Choose a line $L$ to serve as an $x$-axis.
2. For each plane perpendicular to that axis, find the area of the cross section of the solid made by the plane. Call this area $A(x)$.
3. Determine the limits of integration, $a$ and $b$, for the region.
4. Evaluate the definite integral $\int_a^b A(x)\,dx$.




**C. WORK**

Let $F(x)$ represent the force on the point $x$ along the $x$-axis, where $F$ is continuous on the interval $[a,b]$. The work done in moving the object from $a$ to $b$ is

$$W = \int_a^b F(x)\,dx$$

**D. VOLUME OF SOLID OF REVOLUTION**

Example: The region between the curve $y = x^2$ and $y = x^3$ is revolved around the $y$-axis. Find the volume of the solid of revolution produced. In general,

$$V = \int_a^b 2\pi x\,f(x)\,dx, \text{ or, then,}$$

$$V = \int_a^b 2\pi x\,(x^2 - x^3)\,dx$$

$$V = \frac{\pi}{10}$$

**E. ARC LENGTH**

The path of some particle is given parametrically:

$x = g(t)$

$y = h(t)$

Question: How far does the particle travel from time $t = a$ to time $t = b$?

Solution: During the time $dt$ the change in the $x$-coordinate, $dx$, is approximately $dx = g'(t)\,dt$ and the change in $y$-coordinate, $y$, is approximately $dy = h'(t)\,dt$. The corresponding change in the arc length is

$$ds = \sqrt{dx^2 + dy^2}$$

$$\frac{ds}{dt} = \sqrt{\left[\frac{dx}{dt}\right]^2 + \left[\frac{dy}{dt}\right]^2}\,dt$$

Therefore, arc length $= \int_a^b \sqrt{\left[\frac{dx}{dt}\right]^2 + \left[\frac{dy}{dt}\right]^2}\,dt$

## POLAR COORDINATES

**A. DEFINITION**

Polar coordinates describe a point as the intersection of a circle and a ray from the center of that circle.

**B. CONSTRUCTION OF POLAR COORDINATES**

Select a point $O$ in the plane and a ray emanating from this point. The point is called the pole, and the ray intersects with angle $\theta$ from the polar axis.

**C. PLOTTING A POINT**

To plot a point $P$ that corresponds to the pair of numbers $r$ and $\theta$, proceed as follows:

1. If $r$ is positive, $P$ is the intersection of the circle of radius $r$ whose center is at the pole and the ray of angle $\theta$ measuring from the pole.
2. If $r$ is negative, $P$ is the distance $|r|$ from the pole on the ray directly opposite the ray of angle $\theta$.

In each case $P$ is denoted $(r,\theta)$, and the pair $r$ and $\theta$ are called polar coordinates of $P$.

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**Table of Contents Examnotes For Calculus Ii Examnotes**


1. Understanding the eBook Examnotes For Calculus Ii Examnotes
    - The Rise of Digital Reading Examnotes For Calculus Ii Examnotes
    - Advantages of eBooks Over Traditional Books
2. Identifying Examnotes For Calculus Ii Examnotes
    - 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 Examnotes For Calculus Ii Examnotes
    - User-Friendly Interface
4. Exploring eBook Recommendations from Examnotes For Calculus Ii Examnotes
    - Personalized Recommendations
    - Examnotes For Calculus Ii Examnotes User Reviews and Ratings
    - Examnotes For Calculus Ii Examnotes and Bestseller Lists
5. Accessing Examnotes For Calculus Ii Examnotes Free and Paid eBooks
    - Examnotes For Calculus Ii Examnotes Public Domain eBooks
    - Examnotes For Calculus Ii Examnotes eBook Subscription Services
    - Examnotes For Calculus Ii Examnotes Budget-Friendly Options
6. Navigating Examnotes For Calculus Ii Examnotes eBook Formats

- ePub, PDF, MOBI, and More
- Examnotes For Calculus Ii Examnotes Compatibility with Devices
- Examnotes For Calculus Ii Examnotes Enhanced eBook Features

7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Examnotes For Calculus Ii Examnotes
   - Highlighting and Note-Taking Examnotes For Calculus Ii Examnotes
   - Interactive Elements Examnotes For Calculus Ii Examnotes
8. Staying Engaged with Examnotes For Calculus Ii Examnotes
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Examnotes For Calculus Ii Examnotes
9. Balancing eBooks and Physical Books Examnotes For Calculus Ii Examnotes
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Examnotes For Calculus Ii Examnotes
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Examnotes For Calculus Ii Examnotes
    - Setting Reading Goals Examnotes For Calculus Ii Examnotes
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Examnotes For Calculus Ii Examnotes
    - Fact-Checking eBook Content of Examnotes For Calculus Ii Examnotes
    - 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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