



COMPUTING ANTIDERIVATIVES

A. $\int \frac{d}{dx} f(x) dx = f(x) + C$

Example: $\int \frac{8x^3}{x^4 + 1} dx$

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

Therefore, $\int \frac{8x^3}{x^4 + 1} dx = 8 \int \frac{1}{2} f'(u) f(u)^{-1} du = 4 \ln|f(u)| + C = 4 \ln|x^4 + 1| + C$.

B. SUBSTITUTION TECHNIQUE

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

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

Now, let $u = 1 + x^3$. So, $du = 3x^2 dx$.

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

$= \frac{1}{3} \int u^{-1/2} du$

$= \frac{1}{3} \cdot \frac{u^{1/2}}{1/2} + C$

$= \frac{2}{3} u^{1/2} + C$

$= \frac{2}{3} \sqrt{1 + x^3} + C$

C. INTEGRATION BY PARTS

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

$$\int u v' dx = u v - \int v du$$

or by the notation of differentials

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

Example: $\int x e^x dx$

$\int x e^x dx = x e^x - \int e^x dx = x e^x - e^x + C$

2. $\int e^x \sin x dx = 1$. Apply repeated integration by parts.

3. For $\int \frac{dx}{x^2(x^2 + 1)}$, rewrite as $\int x^2 \frac{dx}{(x^2(x^2 + 1))^2}$ and use the substitution $u = \frac{x^2}{x^2 + 1}$.

D. INTEGRATION OF RATIONAL FUNCTIONS BY PARTIAL FRACTIONS

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

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

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

$= 3 \ln|x-1| - 4 \ln|x-2| + C$

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 $\int \sin^2 \theta \cos \theta d\theta$, note $\cos \theta$ is the odd

power of \cos .
 $\int \sin^2 \theta \cos \theta d\theta = \int \sin^2 u du$, so $u = 1$ is even.
 Then replace $\cos^2 \theta = 1 - \sin^2 \theta$ and use the substitution $u = \sin \theta$.

3. To integrate $\int \sin^3 \theta d\theta$, rewrite as:
 $\int \sin^2 \theta \sin \theta d\theta$
 $= \int (1 - \cos^2 \theta) \sin \theta d\theta$
 $= \int (1 - u^2) (-du)$, etc.

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

TRIGONOMETRIC SUBSTITUTION

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

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

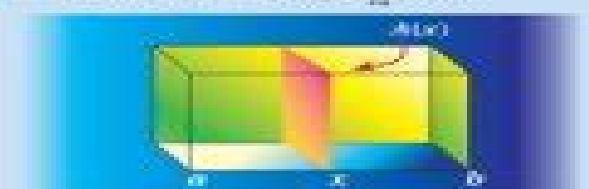
APPLICATION OF THE INTEGRAL

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:



B. COMPUTING VOLUME BY PARALLEL CROSS SECTIONS
 To find the volume of some solid, follow the steps below:

1. Choose a line k 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 at 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.

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

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

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

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, dy , is approximately $dy = h'(t) dt$. The corresponding change in the arc length is:

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

$$\frac{ds}{dt} = \sqrt{\left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2}$$

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 pole in the plane and a ray emanating from this point. The point is called the pole, and the ray emanates with angle 0 from the polar axis.

C. PLOTTING A POINT
 To plot a point P that corresponds to the pair of numbers r and θ , 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 θ emanating 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 θ .
- In each case P is denoted (r, θ) , and the pair r and θ are called polar coordinates of P .



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