

Calc 2 Final Formula

Unit 1 - 5.5, 5.6, 6.1 - 6.4

U-Substitution - $\int f(g(x))g'(x)dx = \int f(u)du = F(u) + C$
 - where $u = g(x)$ and $du = g'(x)$

Area Under Curve - $\int_a^b f(x)dx$
 - under the x axis makes sign neg
 - use symmetry

Average Value - $\frac{1}{b-a} \int_a^b f(x)dx$



Disk Method - $\pi \int_a^b R(x)^2 dx$
 - distance between function and axis

Shell Method - $\int_a^b 2\pi x h dx$
 - $r = x$; usually leave it like that - $h = \text{height}$; usually the equation - bounds are like width.

SA of Straight Line - $\int_a^b 2\pi \text{radius}_{\text{avg}} \text{length}$

Area Between Curves - $\int_a^b [f(x) - g(x)]dx$
 - if not given bounds set equations equal
 - for horizontal; solve in terms of y and bounds also have to be in y .

Volume Using Cross Sections - $V = \int_a^b A(x)dx$
 - Cylinder $\rightarrow$ Area of circle
 - Square Pyramid $\rightarrow$ Area of square

Washer Method - $\int_a^b \pi R^2 - \pi r^2$
 - $R = \text{big radius}$; $r = \text{small radius}$. One radius is usually constant but the other depends on x

Arc Length - $\int_a^b \sqrt{1 + (f'(x))^2} dx$

SA Curved Line - $\int_a^b 2\pi f(x) \sqrt{1 + (f'(x))^2} dx$

Unit 2 - 8.2 - 8.4, 8.8, 10.1

Integration by Parts - $\int u dv = uv - \int v du$
 - u to du ; derivative: Choose u using
 Log Inverse Trig Algebraic Trig Exponential
 - dv to v ; integral: Most likely the more complicated $f(x)$.

Trig Integrals - $\int \sin^n x \cos^n x dx$

Products and Quotients of Trig Functions

For $\int \sin^n x \cos^n x dx$, we have the following:

1. n odd, Strip 1 $\cos$ out and convert rest to $\sin$ using $\cos^2 x = 1 - \sin^2 x$, then use the reduction $\int \sin^n x dx$.
2. n odd, Strip 1 $\sin$ out and convert rest to $\cos$ using $\sin^2 x = 1 - \cos^2 x$, then use the reduction $\int \cos^n x dx$.
3. n even and n both odd, Use either 1. or 2.
4. n even and n both even, Use double angle and/or half angle formulas to reduce the integral into a form that can be integrated.

Prod Formulas: $\sin(2x) = 2\sin(x)\cos(x)$, $\cos^2(x) = \frac{1}{2}(1 + \cos(2x))$, $\sin^2(x) = \frac{1}{2}(1 - \cos(2x))$

Ex. $\int \sin^3 x \cos^4 x dx$

$$\begin{aligned} \int \sin^3 x \cos^4 x dx &= \int \sin^2 x \cos^4 x \sin x dx \\ &= \int (1 - \cos^2 x) \cos^4 x \sin x dx \\ &= \int (1 - \cos^2 x) \cos^4 x (-\cos x) dx \\ &= -\int (1 - \cos^2 x) \cos^5 x dx \end{aligned}$$

For $\int \tan^n x \sec^n x dx$, we have the following:

1. n odd, Strip 1 $\tan$ out and 1 $\sec$ out and convert the rest to $\sec$ using $\tan^2 x = \sec^2 x - 1$, then use the substitution $u = \sec x$.
2. n even, Strip 2 $\sec$ out and convert rest to $\tan$ using $\sec^2 x = 1 + \tan^2 x$, then use the substitution $u = \tan x$.
3. n odd and n even, Use either 1. or 2.
4. n even and n odd, Each integral will be dealt with differently.

Ex. $\int \tan^3 x \sec^4 x dx$

$$\begin{aligned} \int \tan^3 x \sec^4 x dx &= \int \tan^2 x \sec^4 x \tan x dx \\ &= \int (\sec^2 x - 1) \sec^4 x \tan x dx \\ &= \int \sec^6 x \tan x dx - \int \sec^4 x \tan x dx \\ &= \int \sec^5 x \sec x \tan x dx - \int \sec^3 x \sec x \tan x dx \end{aligned}$$

- For products of trig $f(x)$

- $\sin mx \sin nx = \frac{1}{2} [\cos(m-n)x - \cos(m+n)x]$
- $\sin mx \cos nx = \frac{1}{2} [\sin(m-n)x + \sin(m+n)x]$
- $\cos mx \cos nx = \frac{1}{2} [\cos(m-n)x + \cos(m+n)x]$

Trig Sub - 1. Write down side, calculate dx and specify θ
 2. Sub expression and dx into $\int$ and simplify
 3. Integrate - keep in mind θ restrictions
 4. Draw a reference Δ to reverse the sub to original x



Improper Integrals - 2 types

1. Integrals with infinite limits.

$$\begin{aligned} \text{A. If } f \text{ is continuous on } [a, \infty) \text{ then} \\ \int_a^{\infty} f(x) dx = \lim_{b \rightarrow \infty} \int_a^b f(x) dx \\ \text{B. If } f \text{ is continuous on } (-\infty, b] \text{ then} \\ \int_{-\infty}^b f(x) dx = \lim_{a \rightarrow -\infty} \int_a^b f(x) dx \\ \text{C. If } f \text{ is continuous on } (-\infty, \infty) \text{ then} \\ \int_{-\infty}^{\infty} f(x) dx = \int_{-\infty}^c f(x) dx + \int_c^{\infty} f(x) dx \end{aligned}$$

- if the $\lim$ DNE or is $\infty \rightarrow$ diverges
- if it has a value $\rightarrow$ converges.

2. Functions that become infinite at a point

$$\begin{aligned} \text{A. If } f \text{ is continuous on } (a, b] \text{ and discontinuous at } a, \text{ then} \\ \int_a^b f(x) dx = \lim_{t \rightarrow a^+} \int_t^b f(x) dx \\ \text{B. If } f \text{ is continuous on } [a, b) \text{ and discontinuous at } b, \text{ then} \\ \int_a^b f(x) dx = \lim_{t \rightarrow b^-} \int_a^t f(x) dx \\ \text{C. If } f \text{ is discontinuous at } c, \text{ where } a < c < b, \text{ and continuous on } [a, c) \cup (c, b], \text{ then} \\ \int_a^b f(x) dx = \int_a^c f(x) dx + \int_c^b f(x) dx \end{aligned}$$

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