

Calculus 2

if f is continuous on $[a, b]$
 $g(x) = \int_a^x f(t) dt$
 $a \leq x \leq b$
 $g'(x) = f(x)$

FUNDAMENTAL
THEOREM OF
CALCULUS
PT 1

if f is continuous on $[a, b]$
 $\int_a^b f(x) dx = F(b) - F(a)$
 where F is antiderivative of f

Riemann Sums

left $L_n = \frac{b-a}{n} [f(a) + f(a+\Delta x) + f(a+2\Delta x) + \dots + f(b-\Delta x)]$
 right $R_n = \frac{b-a}{n} [f(a+\Delta x) + f(a+2\Delta x) + \dots + f(b-\Delta x) + f(b)]$
 mid $M_n = \frac{b-a}{n} [f(a+\frac{\Delta x}{2}) + f(a+\frac{3\Delta x}{2}) + \dots + f(b-\frac{\Delta x}{2})]$
 trap $T_n = \frac{b-a}{2n} [f(a) + 2f(a+\Delta x) + \dots + 2f(b-\Delta x) + f(b)] = \frac{L_n + R_n}{2}$
 simp $S_n = \frac{b-a}{3n} [f(a) + 4f(a+\Delta x) + 2f(a+2\Delta x) + 4f(a+3\Delta x) + \dots + 2f(b-2\Delta x) + 4f(b-\Delta x) + f(b)]$
 n must be even for simp

Methods of Integration

Substitution $\int f(g(x)) g'(x) dx = \int f(u) du$

By Parts $\int u dv = uv - \int v du$

for choosing u
 LIPT
 Logarithmic
 Inverse trig
 Polynomial
 Trigonometric

Tabular Variation
 ex $\int x^2 e^x dx$
 $\begin{array}{c|c} x^2 & e^x \\ \hline 2x & e^x \\ 2 & e^x \\ 0 & e^x \end{array}$
 $= x^2 e^x - 2x e^x + 2 e^x + C$
 for when u gets to 0

Trig Substitution

when you have

substitute

$a^2 + x^2$

$x = a \tan \theta$

$a^2 - x^2$

$x = a \sin \theta$

$x^2 - a^2$

$x = a \sec \theta$

triangles



may need to complete the square to get a nice form

Partial Fractions (use on integrand prior to integration)

$\frac{R(x)}{Q(x)} = \frac{A_1}{a_1x+b_1} + \frac{A_2}{a_2x+b_2} + \dots + \frac{A_n}{a_nx+b_n}$

for Rational functions

if factor of $A(x) = (a_1x+b_1)^r$, $r > 1$, use r times
 if degree of $R(x) \geq$ degree of $Q(x)$, divide first
 if for factor of $Q(x)$, $a^2 - 4ac < 0$, need form $Ax+B$ in numerator (factor not reducible to linear factors)

Improper Integrals

- evaluate at a limit \rightarrow converges
 ex $\int_0^\infty f(x) dx = \lim_{b \rightarrow \infty} \int_0^b f(x) dx = \infty \rightarrow$ diverges

Infinite Series - Tests

Divergence if $\lim_{n \rightarrow \infty} a_n \neq 0 \rightarrow$ Divergent

Geometric (r) $|r| < 1 \rightarrow$ Convergent \rightarrow Sum = $\frac{a}{1-r}$

$|r| > 1 \rightarrow$ Divergent

P-Series ($\frac{1}{n^p}$) $p > 1 \rightarrow$ Convergent

$p \leq 1 \rightarrow$ Divergent

Integral $\int a_n dx$ $f(x)$ must be pos, cont, inc and $\int_a^\infty f(x) dx$ will conv or div

Comparison direct $a_n > b_n$ and $\int b_n$ diverges $\rightarrow \int a_n$ div

Limit $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = C \rightarrow$ Both $\int a_n$ and $\int b_n$ converge or diverge

Ratio $\lim_{n \rightarrow \infty} \left| \frac{a_{n+1}}{a_n} \right| > 1 \rightarrow$ divergent

Root $\lim_{n \rightarrow \infty} \sqrt[n]{|a_n|} > 1 \rightarrow$ divergent

$= 1 \rightarrow$ inconclusive

$< 1 \rightarrow$ convergent

Alternating $a_n \leq a_n$, $\lim_{n \rightarrow \infty} a_n = 0 \rightarrow$ cond. convergence

Power Method $\frac{1}{1-u} = \sum_{n=0}^\infty u^n$ when $|u| < 1$

Binomial $(1+x)^n = \sum_{k=0}^\infty \binom{n}{k} x^k$

Taylor $\sum_{n=0}^\infty \frac{f^{(n)}(a)}{n!} (x-a)^n$

Maclaurin

Taylor Series centered at 0 ($a=0$)

Properties of the Integral

$\int_a^b f(x) dx = - \int_b^a f(x) dx$

$\int_a^a f(x) dx = 0$

$\int K f(x) dx = K \int f(x) dx$

$\int [f(x) + g(x)] dx = \int f(x) dx + \int g(x) dx$

$\int [f(x) - g(x)] dx = \int f(x) dx - \int g(x) dx$

$\int_a^b f(x) dx + \int_b^c f(x) dx = \int_a^c f(x) dx$

If $f(x) \geq 0$ for $A \leq x \leq B$

then $\int_A^B f(x) dx \geq 0$

If $f(x) \geq g(x)$ for $A \leq x \leq B$

then $\int_A^B f(x) dx \geq \int_A^B g(x) dx$

If $m \leq f(x) \leq M$ for $A \leq x \leq B$

then $m(B-A) \leq \int_A^B f(x) dx \leq M(B-A)$

Average Value

$f_{av} = \frac{1}{b-a} \int_a^b f(x) dx$

Arc length

$L = \int_a^b \sqrt{1 + [f'(x)]^2} dx$

if f' is cont. on $[a, b]$

L is length of $y=f(x)$, $a \leq x \leq b$

Area of Surface of Revolution

$A = 2\pi r L$

$(r = f(x))$

For the

indefinite

Euler's Method

$Y_n = Y_{n-1} + hF(X_{n-1}, Y_{n-1})$

$h =$ step size

STRATEGIES

Integration

1 Simplify Integrand

2 See F and $F' \rightarrow$ Sub

3 Rational \rightarrow Partial

4 Product of Polynomial and transcendental \rightarrow Parts

5 Radical \rightarrow Trig Sub?

Infinite Series: Con or div?

1 Clearly Div \rightarrow Con Test

2 Easy Integral \rightarrow Int Test

3 Geometric \rightarrow Geom Test

4 Alternating \rightarrow Alt Test

5 Factorials \rightarrow Ratio

6 something \rightarrow Root

7 P-series or Geometric like \rightarrow Comparison Tests

Area Between Curves

Area = $\int_a^b [f(x) - g(x)] dx$ (on $[a, b]$ where f and g are cont. $f(x) \geq g(x)$ on $[a, b]$)

Volumes of Rotation

METHOD

SETUP

where W is what you express the radius in terms of

disk $\int \pi r^2 dw$ around $X \rightarrow dx$

washer $\int \pi (R^2 - r^2) dw$ around $Y \rightarrow dy$

outer radius inner radius

shell $\int 2\pi r h dw$ around $X \rightarrow dy$

circum weight thickness around $Y \rightarrow dx$

Calculus 2 Study Guide

James F. Hurley



Calculus 2 Study Guide:

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