

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
 Polynomial
 Trig

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 goes to 0

Trig Substitution

when you have
 $a^2 + x^2$ $x = a \tan \theta$
 $a^2 - x^2$ $x = a \sin \theta$
 $x^2 - a^2$ $x = a \sec \theta$
 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) of partial fraction

Improper Integrals

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

Infinite Series - Tests

Divergence if $\lim_{n \rightarrow \infty} a_n \neq 0 \Rightarrow$ Divergent
 Geometric (r^n) $|r| < 1 \Rightarrow$ Convergent \rightarrow Sum = $\frac{a}{1-r}$
 $|r| \geq 1 \Rightarrow$ 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 $a_n > b_n$ and $\sum b_n$ diverges $\Rightarrow \sum a_n$ div
 $a_n < b_n$ and $\sum b_n$ converges $\Rightarrow \sum a_n$ conv
 Limit $\lim_{n \rightarrow \infty} \frac{a_n}{b_n} = C \Rightarrow$ Both $\sum a_n$ and $\sum b_n$ converge or diverge
 Ratio $\lim_{n \rightarrow \infty} \left| \frac{a_{n+1}}{a_n} \right| > 1 \Rightarrow$ divergent
 $= 1 \Rightarrow$ inconclusive
 $< 1 \Rightarrow$ convergent
 Root $\lim_{n \rightarrow \infty} \sqrt[n]{|a_n|} > 1 \Rightarrow$ divergent
 $= 1 \Rightarrow$ inconclusive
 $< 1 \Rightarrow$ convergent
 Alternating $a_n \leq a_{n-1}$, $\lim_{n \rightarrow \infty} a_n = 0 \Rightarrow$ 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
 $f_{\text{ave}} = \frac{1}{b-a} \int_a^b f(x) dx$

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
 +C
 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 Div Test
 2. Easy Integral \rightarrow Int Test
 3. Geometric \rightarrow Geom Check
 4. Alternating \rightarrow Alt Test
 5. Factorials \rightarrow Ratio
 6. something \rightarrow Root
 7. Powers or Geometric like \rightarrow Comparison Tests

Area Between Curves
 $\text{Area} = \int_a^b [f(x) - g(x)] dx$ (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 $Y \rightarrow dy$
 center radius inner radius
 shell $\int 2\pi r h dw$ around $X \rightarrow dy$
 circum weight thickness around $Y \rightarrow dx$

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**David C. Lay, Larry J. Goldstein, David I.
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