

MATH142 Formula Sheet: Final Exam

Polar Coordinates:

$$\begin{aligned} r &= \sqrt{x^2 + y^2} \\ \theta &= \tan^{-1}\left(\frac{y}{x}\right) \quad [\text{chosen appropriately}] \\ x &= r \cos \theta \\ y &= r \sin \theta \end{aligned}$$

Area in Polar Coordinates:

$$A = \frac{1}{2} \int_a^b (f(\theta))^2 d\theta = \frac{1}{2} \int_a^b r^2 d\theta$$

Arc Length:

$$\text{Cartesian: } S = \int_a^b \sqrt{1 + \left(\frac{dy}{dx}\right)^2} dx$$

$$\text{Parametric: } S = \int_a^b \sqrt{(x'(t))^2 + (y'(t))^2} dt$$

$$\text{Polar coordinates: } S = \int_{\theta_1}^{\theta_2} \sqrt{\left(\frac{dr}{d\theta}\right)^2 + r^2} d\theta$$

Volumes of solids of revolution:

$$\text{Disc Method: } V = \pi \int_a^b [f(x)]^2 dx$$

$$\text{Shell Method: } V = 2\pi \int_a^b x f(x) dx$$

Elementary rules for Numerical Integration:

$$\text{Midpoint: } \int_a^b f(x) dx \approx (b-a)f\left(\frac{a+b}{2}\right)$$

$$\text{Trapezoidal: } \int_a^b f(x) dx \approx \frac{1}{2}(b-a)[f(a) + f(b)]$$

Simpson's:

$$\int_a^b f(x) dx \approx \frac{1}{3} \left(\frac{b-a}{2} \right) \left[f(a) + 4f\left(\frac{a+b}{2}\right) + f(b) \right]$$

Composite rules for Numerical Integration:

$$\text{Trapezoidal rule: } \int_a^b f(x) dx \approx \frac{1}{2}h \left\{ f(a) + 2f(a+h) + 2f(a+2h) + \cdots + 2f(a+[N-1]h) + f(b) \right\}, \quad h = \frac{b-a}{N}$$

Simpson's rule:

$$\int_a^b f(x) dx \approx \frac{1}{3}h \left\{ f(a) + 4f(a+h) + 2f(a+2h) + 4f(a+3h) + \cdots + 2f(a+[N-2]h) + 4f(a+[N-1]h) + f(b) \right\}$$

Trigonometric Identities:

$$\begin{aligned} \sin(\theta \pm \psi) &= \sin \theta \cos \psi \pm \cos \theta \sin \psi \\ \cos(\theta \pm \psi) &= \cos \theta \cos \psi \mp \sin \theta \sin \psi \\ \sin 2\theta &= 2 \sin \theta \cos \theta \\ \cos 2\theta &= \cos^2 \theta - \sin^2 \theta \\ 1 &= \cos^2 \theta + \sin^2 \theta \\ \sinh(x \pm y) &= \sinh x \cosh y \pm \cosh x \sinh y \\ \cosh(x \pm y) &= \cosh x \cosh y \pm \sinh x \sinh y \\ \cosh 2x &= \cosh^2 x + \sinh^2 x \\ 1 &= \cosh^2 x - \sinh^2 x \end{aligned}$$

Hyperbolic Functions:

$$\cosh x = \frac{e^x + e^{-x}}{2}$$

$$\sinh x = \frac{e^x - e^{-x}}{2}$$

n th term test: If $\lim_{n \rightarrow \infty} u_n \neq 0$, $\sum_{n=1}^{\infty} u_n$ diverges.

Geometric series: $\sum_{n=0}^{\infty} ar^n$, convergent for $|r| < 1$.
If convergent, sum $S = \frac{a}{1-r}$.

p -series: $\sum_{n=1}^{\infty} \frac{1}{n^p}$, convergent for $p > 1$.

"Telescoping" series: $\sum_{n=1}^{\infty} u_n$ where u_n can be written as a difference like $v_n - v_{n+1}$.

For $\sum_{n=1}^{\infty} u_n$, if $\sum_{n=1}^{\infty} c_n$ converges and $\sum_{n=1}^{\infty} d_n$ diverges.

CRT: $\lim_{n \rightarrow \infty} \frac{u_n}{c_n}$ finite gives convergence;

$\lim_{n \rightarrow \infty} \frac{u_n}{d_n} > 0$ and finite gives divergence.

CT: $u_n \leq c_n$ gives convergence; $u_n \geq d_n$ gives divergence.

RT: With $l = \lim_{n \rightarrow \infty} \left| \frac{u_{n+1}}{u_n} \right|$,
 $l < 1$ gives convergence,
 $l > 1$ gives divergence,
 $l = 1$ is inconclusive.

AST: $\sum_{n=1}^{\infty} u_n$ converges when
(i) it's alternating,
(ii) $\lim_{n \rightarrow \infty} |u_n| = 0$, and
(iii) $|u_{n+1}| \leq |u_n|$.

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

Maclaurin Series: $f(x) = \sum_{n=0}^{\infty} \frac{f^{(n)}(0)x^n}{n!}$

To establish convergence or divergence of a series, suggested test to try first:

$u_n = \text{polynomial}$ \rightarrow CRT

$u_n = \frac{\ln n}{\text{polynomial}}$ \rightarrow CRT or CT (using $\ln n < n$)

u_n contains $n!$ \rightarrow RT

u_n contains c^n \rightarrow RT (or CT)

$u_n = \frac{\text{trig function}}{\text{polynomial}}$ \rightarrow CT

$u_n = (-1)^n \frac{\text{polynomial}}{\text{polynomial}}$ \rightarrow CRT on $|u_n|$ then AST only if necessary

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