MATH142 Formula Sheet: Final Exam

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

Area in Polar Coordinates:
$$A = \frac{1}{2}\int_\alpha^\beta (f(\theta))^2 \, d\theta = \frac{1}{2}\int_\alpha^\beta r^2 \, d\theta$$

Arc Length:

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

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

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:

Disc Method: $V = \pi \int_a^b \left[f(x)\right]^2 \, dx$

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

Elementary rules for Numerical Integration:

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

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:

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

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:
$$\sin(\theta \pm \psi) = \sin\theta\cos\psi \pm \cos\theta\sin\psi$$
$$\cos(\theta \pm \psi) = \cos\theta\cos\psi \mp \sin\theta\sin\psi$$
$$\sin 2\theta = 2\sin\theta\cos\theta$$
$$\cos 2\theta = \cos^2\theta - \sin^2\theta$$
$$1 = \cos^2\theta + \sin^2\theta$$
$$\sinh(x \pm y) = \sinh x \cosh y \pm \cosh x \sinh y$$
$$\cosh(x \pm y) = \cosh x \cosh y \pm \sinh x \sinh y$$
$$\cosh 2x = \cosh^2 x + \sinh^2 x$$
$$1 = \cosh^2 x - \sinh^2 x$$

Hyperbolic Functions:
$$\cosh x = \frac{e^x + e^{-x}}{2}$$
$$\sinh x = \frac{e^x - e^{-x}}{2}$$

nth term test: If $\lim_{n\to\infty} u_n \neq 0$, $\sum_{n=1}^{\infty} u_n$ 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: $\lim_{n\to\infty} \frac{u_n}{c_n}$ finite gives convergence;
$\lim_{n\to\infty} \frac{u_n}{d_n} > 0$ and finite gives divergence.

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

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

AST: $\sum_{n=1}^{\infty} u_n$ converges when
(i) it's alternating,
(ii) $\lim_{n\to\infty} |u_n| = 0$, 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:

$u_n = \frac{\text{polynomial}}{\text{polynomial}}$ $\longrightarrow$ CRT

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

u_n contains $n!$ $\longrightarrow$ RT

u_n contains c^n $\longrightarrow$ RT (or CT)

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

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

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