

# MATH142 Formula Sheet: Final Exam

## Polar Coordinates:

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

## 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:

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

## Simpson's rule:

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

## 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:

$$\begin{aligned} \cosh x &= \frac{e^x + e^{-x}}{2} \\ \sinh x &= \frac{e^x - e^{-x}}{2} \end{aligned}$$

$n$ 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;

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

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                                       |
| $u_n = \frac{\text{polynomial}}{\ln n}$                    | $\rightarrow$ | CRT or CT (using $\ln n < n$ )            |
| $u_n$ contains $n!$  | $\rightarrow$ | RT  |
| $u_n$ contains $e^n$                                       | $\rightarrow$ | 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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**Annelies Wilder-Smith**



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