

Calculus II Formula Sheet

AREA FORMULAS

- Area of a square: $A = s^2$
- Area of a circle/disc: $A = \pi r^2$
- Area of a semicircle: $A = \frac{1}{2}\pi r^2$
- Surface area of a cylinder/shell: $SA = 2\pi rh$

TRIGONOMETRIC IDENTITIES

- $1 - \cos^2(\theta) = \sin^2(\theta)$
- $\sin^2(\theta) = \frac{1}{2}(1 - \cos(2\theta))$
- $1 - \sin^2(\theta) = \cos^2(\theta)$
- $\cos^2(\theta) = \frac{1}{2}(1 + \cos(2\theta))$
- $\tan^2(\theta) + 1 = \sec^2(\theta)$
- $\sin(2\theta) = 2\sin(\theta)\cos(\theta)$
- $\sec^2(\theta) - 1 = \tan^2(\theta)$

- For a right triangle:  $\sin \theta = \frac{b}{c}$, $\cos \theta = \frac{a}{c}$, $\tan \theta = \frac{b}{a}$, $\sec \theta = \frac{c}{a}$

INTEGRAL FORMULAS

- $\int \sin x \, dx = -\cos x + C$
- $\int x^n \, dx = \frac{x^{n+1}}{n+1}$
- $\int \cos x \, dx = \sin x + C$
- $\int e^x \, dx = e^x + C$
- $\int \sec^2 x \, dx = \tan x + C$
- $\int \frac{1}{x} \, dx = \ln|x| + C$
- $\int \sec x \tan x \, dx = \sec x + C$
- Integration by parts: $\int u \, dv = uv - \int v \, du$
- $\int \sec x \, dx = \ln|\sec x + \tan x| + C$
- $\int \frac{1}{x^2 + a^2} \, dx = \frac{1}{a} \arctan\left(\frac{x}{a}\right) + C$
- $\int \sec^3 x \, dx = \frac{1}{2}\sec x \tan x + \frac{1}{2}\ln|\sec x + \tan x| + C$

SERIES

- The p-series $\sum_{n=1}^{\infty} \frac{1}{n^p}$ converges for $p > 1$ and diverges for $p \leq 1$.
- The geometric series $\sum_{n=0}^{\infty} r^n$ converges to $\frac{r^0}{1-r}$ for $|r| < 1$ and diverges for $|r| \geq 1$.

SPECIAL LIMITS

- $\lim_{x \rightarrow \infty} \left(1 + \frac{1}{x}\right)^x = \lim_{x \rightarrow \infty} \left(\frac{x+1}{x}\right)^x = e$
- $\lim_{x \rightarrow \infty} \left(\frac{x}{x+1}\right)^x = \frac{1}{e}$
- $\lim_{x \rightarrow \infty} x^{1/x} = 1$
- $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$

Calculus Integrals Ii

VM Jensen



Calculus Integrals II:

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