BC Calc Memorization Sheet

Derivatives

$\frac{d}{dx} x^n = nx^{n-1}$

$\frac{d}{dx} \ln x = \frac{1}{x}$

$\frac{d}{dx} \log_b x = \frac{1}{x \ln b}$

$\frac{d}{dx} e^x = e^x$

$\frac{d}{dx} b^x = b^x \cdot \ln b$

$\frac{d}{dx} \sin x = \cos x$

$\frac{d}{dx} \cos x = -\sin x$

$\frac{d}{dx} \tan x = \sec^2 x$

$\frac{d}{dx} \sec x = \sec x \cdot \tan x$

$\frac{d}{dx} \arcsin x = \frac{1}{\sqrt{1-x^2}}$

$\frac{d}{dx} \arccos x = -\frac{1}{\sqrt{1-x^2}}$

$\frac{d}{dx} \arctan x = \frac{1}{1+x^2}$

Integrals

$\int x^n dx = \frac{x^{n+1}}{n+1} + C \quad , n \neq -1$

$\int \frac{1}{x} dx = \ln|x| + C$

Trig Identities

$\tan x = \frac{\sin x}{\cos x}$

$\sin^2 x + \cos^2 x = 1$

Volume

Disc

$V = \pi \int_a^b r^2 \, dx$

Washer

$V = \pi \int_a^b \left(R^2 - r^2\right) dx$

Shell

$V = 2\pi \int_a^b rh \, dx$

Cross Section

$V = \int_a^b A \, dx$

Integration Rules

U-Substitution

$\int f(g(x))dx$ let u = g(x)

Integration by Parts

$\int u \, dv = uv - \int v \, du$

Decomposing into P.F.

$\frac{1}{(cx+d)(kx+k)} = \frac{A}{(cx+d)} + \frac{B}{(kx+k)}$

L'Hopital's Rule

If $\lim_{x \to a} \frac{f(x)}{g(x)} = \frac{0}{0}$ or $= \frac{\infty}{\infty}$,

then $\lim_{x \to a} \frac{f(x)}{g(x)} = \lim_{x \to a} \frac{f'(x)}{g'(x)}$

First Fundamental Theorem

$\frac{d}{dx} \int_a^{g(x)} f(t)dt = f(g(x)) \cdot g'(x)$

Second Fundamental Theorem

$\int_a^b f(t)dt = F(b) - F(a)$ where $F'(x) = f(x)$

Differentiation Rules

Prod.

$\frac{d}{dx}(f \cdot g) = f'g + fg'$

Quot.

$\frac{d}{dx}\left(\frac{f}{g}\right) = \frac{f'g - fg'}{g^2}$

Chain

$\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x)$

Position, Vel, Acc

$v(t) = \frac{d}{dt}(pos) \quad a(t) = \frac{d}{dt}(v(t))$

$displacement = \int_a^b v(t)dt$

$T.D.T. = \int_a^b |v(t)|dt$

$speed = |vel|$

Alt. Series Error: error $\leq |a_{n+1}|$ (the next term)

Lagrange Error:

error $\leq \left| \frac{f^{(n+1)}(c)(b-a)^{n+1}}{(n+1)!} \right|$ where

$\left|f^{(n+1)}(c)\right|$

is the maximum value of $f^{n+1}(x)$ on [a,b].

Definition of Derivative

$f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$

Inv Fun Theorem

f(x)	(a,b)	slope = m
$f^{-1}(x)$	(b,a)	slope = $\frac{1}{m}$

McLaurin Series to have memorized

$e^x = 1 + x + \frac{x^2}{2!} + \frac{x^3}{3!} + \cdots + \frac{x^n}{n!} + \cdots$

$\sin x = x - \frac{x^3}{3!} + \frac{x^5}{5!} - \cdots + \frac{(-1)^n x^{2n+1}}{(2n+1)!} + \cdots$

$\cos x = 1 - \frac{x^2}{2!} + \frac{x^4}{4!} - \cdots + \frac{(-1)^n x^{2n}}{(2n)!} + \cdots$

Logistic

$\frac{dP}{dt} = \frac{k}{M} P(M - P)$

$P = \frac{M}{1 + Ce^{-kt}}$

M = carrying capacity

Pt Slope Form

$y - y_1 = m(x - x_1)$

Taylor Series

$f(x) = f(a) + f'(a)(x-a) + \frac{f''(a)}{2!}(x-a)^2 + \frac{f'''(a)}{3!}(x-a)^3 + \cdots + \frac{f^{(n)}(a)}{n!}(x-a)^n + \cdots$

Maclaurin Series (Taylor series with $a = 0$)

Euler's Method

(x,y)	$\frac{dy}{dx}$	Δx	$\Delta y = \frac{dy}{dx}\Delta x$	(x,y)

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Puja Mehta

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