

# BC Calc Memorization Sheet

## Derivatives

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

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

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

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

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

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

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

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

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

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

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

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

## 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

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

## Definition of Derivative

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

Inv Fun Theorem

$f(x)$  (a,b) slope = m

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

## Integrals

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

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

## Integration Rules

U-Substitution

$$\int f(g(x)) dx \quad \text{let } u = g(x)$$

Integration by Parts

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

Decomposing into P.F.

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

## Trig Identities

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

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

## L'Hopital's Rule

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

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

## Volume

Disc

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

Washer

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

Shell

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

Cross Section

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

## First Fundamental Theorem

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

## Second Fundamental Theorem

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

Position, Vel, Acc

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

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

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

$$\text{speed} = |vel|$$

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

Lagrange Error:

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

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

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

## McLaurin Series to have memorized

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

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

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

## Logistic

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

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

M = carrying capacity

## Pt Slope Form

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

## Taylor Series

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

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

## Euler's Method

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

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**CL Gary**



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The novel begins with Richard Pappen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

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