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

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

Inv Fun Theorem

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

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

Position, Vel, Acc

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

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

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

$$speed = |vel|$$

McLaurin Series to have memorized

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

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

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

Trig Identities

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

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

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

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

Alt. Series Error

$\text{error} \leq |a_{n+1}|$ (the next term)

Lagrange Error:

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

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

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

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

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)

Sample Exam 6 8th Edition Calculus Bc

Robert R. Redfield

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