

## 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

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

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

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

### Trig Identities

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

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

### L'Hopital's Rule

If  $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \frac{0}{0}$  or  $\frac{\infty}{\infty}$   
 then  $\lim_{x \rightarrow c} \frac{f(x)}{g(x)} = \lim_{x \rightarrow c} \frac{f'(x)}{g'(x)}$

### 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

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

### Position, Vel, Acc

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

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

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

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

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

**Lagrange Error:**  
 error  $\leq \frac{|f^{(n+1)}(c)(b-a)^{n+1}|}{(n+1)!}$  where  
 $|f^{(n+1)}(c)|$   
 is the maximum value of  $f^{(n+1)}(x)$  on  $[a,b]$ .

### 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 =  $\frac{1}{m}$

### 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

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

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

$M =$  carrying capacity

### Pt Slope Form

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

### Taylor Series

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

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

### Euler's Method

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

# Multivariable Calculus For Dummies

**Sebastian Brünink**



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b pressure test procedures when you pressure test the bop system you must conduct a low pressure test and a high pressure test for each bop component excluding test rams and non sealing shear rams you must begin each test by conducting the low pressure test then transition to the high pressure test

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there are two elements to the pre job well site pressure test 1 wireline valve wlv pressure function test the tests should be performed on the test stump prior to rigging up and involves testing the pressure integrity of the wlv and the individual closed ram assemblies and the ram assembly functionality under pressure

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the purpose of bop stack function and pressure testing is to verify the hydraulic integrity of all the components of the bop stack at their rated working pressure in this article we will discuss the function test and pressure test procedure using cup tester

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all elmar wireline pressure control equipment is certified to be manufactured following api6a specifications to inhibitors for the pressure test the pressure test procedure for each assembly is stated on each assembly drawing equipment is stripped down rebuilt with new elastomers including bop ram outer seals and quick

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pressure all bop equipment tests must include a low pressure test of 250 psi before proceeding to the full pressure test test pressure held and recorded for a minimum of five minutes after full pressure has been established represents a satisfactory pressure test ensure rotary bushings are locked if left in place where h<sub>2</sub>s is present all

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7 31 body pressure test procedure 1 locate the test plug and test cap on to their appropriate ends 2 bleed off all air within the assembly 3 ensure all external surfaces are dry 4 pressure test to test pressure for 3 minutes 5 reduce pressure to zero and repeat test for 15 minutes minimum no leakage acceptable 7 32 bop manifold test

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apr 17 2023 bop test plan bop testing consists of several pressure tests with different valve line ups in order to test all the components of the bop system careful planning is required to ensure all components are tested and in a minimum number of pressure tests in order to ensure efficient execution of drilling operations

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a wireline bop must always be installed between the wellhead and wireline lubricators this bop is a piece of pressure control equipment that can close around the wire and seal off the well pressure below it this enables the pressure to be bleed off above it allowing work or repairs to be carried out on equipment above the bop without pulling

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