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Guide

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whole semester of math. The guide covers integrations, applications in geometry, physics, and differential equations (this is not taught in calculus II by the way). There are sections on approximations, sequences and series, convergence tests, and finally, power series.

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integral calculus, is the gateway to higher level mathematics of which the best degrees and careers are built upon. The core essentials can be used along with your text and lectures, as a review before testing, or as a memory companion that keeps key answers always at your fingertips. Suggested uses:

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Area of a Surface of Revolution (a) Rotated around the x-axis 9. B Veitch Calculus 2 Study Guide  $SA = \int_a^b 2\pi y \sqrt{1 + \left(\frac{dy}{dx}\right)^2} dx$  2.  $SA = \int_c^d 2\pi y \sqrt{1 + \left(\frac{dx}{dy}\right)^2} dy$  The first integral is in terms of x. That means the y in front of the square root should be in terms of x. For example,  $y = x^2 + 2$ .

## **Exponential**

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**Properties - Brian  
Veitch**

2.2. Volumes 52 2.3.  
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Curves 57 2.4. Average  
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Directional Fields and

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Euler's Method 78 3.3.  
Exponential Growth ...

### **Notes on Calculus II Integral Calculus**

Calculus II tends to be a very difficult course for many students.

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problems tends to be skipped and left to the student to verify or fill in the details.

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Lecture Notes. Review.  
Differentiation,  
Fundamental Theorem,  
and u-substitution;  
Applications of  
Integration.

### **Calculus**

1.2 Calculus Without  
Limits 1.3 The Velocity  
at an Instant 1.4  
Circular Motion 1.5 A  
Review of  
Trigonometry 1.6 A  
Thousand Points of  
Light 1.7 Computing in  
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2: Derivatives. 2.1 The  
Derivative of a  
Function 2.2 Powers  
and Polynomials 2.3  
The Slope and the  
Tangent Line 2.4  
Derivative of the Sine  
and Cosine

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have covered this term. There will certainly be an emphasis on power series, Taylor series, and analytic functions, so make sure to focus on those topics.

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Shantia Yarahmadian.  
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covering what's going  
to be on Exam 1. The  
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2.  $f'g + fg'$  3.  $f'g - fg'$  - Product Rule  
4.  $\frac{f'g - fg'}{g^2}$  - Quotient Rule  
5.  $\frac{d}{dx} c = 0$   
6.  $\frac{d}{dx} x^n = nx^{n-1}$  - Power Rule  
7.  $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x)$  This is the Chain Rule  
Common Derivatives  
1.  $\frac{d}{dx} \sin x = \cos x$   
 $\frac{d}{dx} \cos x = -\sin x$   
 $\frac{d}{dx} \tan x = \sec^2 x$

## Calculus Cheat Sheet - Lamar University

In this section you are mainly concerned with

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learning the meaning of the derivative, and also the notation. The list of functions with known derivatives includes  $f(t) =$  constant,  $Vt$ ,  $+at^2$ , and  $1/t$ . Those functions have  $f'(t) = 0$ ,  $V$ ,  $at$ , and  $-1/t^2$ . We also establish the "square rule", that the derivative of  $(f(t))^2$  is  $2f(t)f'(t)$ .

**Function (page 49) - MIT**

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Each Calculus 2 problem is tagged down to the core, underlying concept that is being tested. The Calculus 2 diagnostic test results highlight how you performed on each area of the test. You can then utilize the results to create a personalized study plan that is based on your particular area of need.

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## Diagnostic Test 1

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