

Warm-Up

(a) What is the Fundamental Theorem of Calculus?

RECALL

Here are the titles of the first 9 Worksheets of the class.

*** means Exam 1 will not cover this material**

Class 1 *Introduction to Accumulation, Approximating Area and Riemann Sums*

Class 2 *The Definite Integral*

Class 3 *Evaluating Definite Integrals: The Anti-Derivative*

Class 4 *The Fundamental Theorem of Calculus*

Class 5 *Integration Techniques: Integration by Substitution*

Class 6 *Practicing Integration*

Class 7 *Integration by Parts*

Class 8 *Trigonometric Integrals and Integral Tables**

Class 9 *Partial Fractions**

Here are the titles of the Quizzes

Quiz 1 *Estimating A Definite Integral Using Riemann Sums*

Quiz 2 *Using The Fundamental Theorem of Calculus*

Quiz 3 *Integration by Parts and Integration by Substitution*

BONUS 1 *Integration by Parts and Integration by Substitution*

Here are the topics covered in Lab

Lab 1 *Derivatives Gateway*

Lab 2 *Patterns of Anti-Derivatives*

Lab 3 *Integration By Parts Practice and Introduction to CAS (Wolfram|Alpha)*

Here are the Chapters covered in the textbook, *Single Variable Essential Calculus (Early Transcendentals)*

*** means Exam 1 will not cover this material**

Section 5.1 *Areas and Distances*

Section 5.2 *The Definite Integral*

Section 5.3 *Evaluating Definite Integrals*

Section 5.4 *The Fundamental Theorem of Calculus*

Section 5.5 *The Substitution Rule*

Section 6.1 *Integration By Parts*

Section 6.2 *Trigonometric Integrals and Substitutions**

Section 6.3 *Partial Fractions**

Section 6.4 *Integration with Tables and Computer Algebra Systems**

GROUPWORK

What is the topic (or concept) that is still the most unclear right now?