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?