

Calculus Chapter 4

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Definite Integrals



Video Video

Section 4.2 in Stewart's Calculus.

Preclass Learning Objectives:

- **Definite integrals calculate the area under a function over an interval.**
- **Riemann Sums.**
- **Properties of definite integrals.**

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Fundamental Theorem of Calculus



Video Video

Section 4.3 in Stewart's Calculus.

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Indefinite Integrals

***Section 4.4 in
Stewart's***



Video

Calculus.

Preclass Learning Objectives:

- An indefinite integral of a function is its general antiderivative.
- The definite integral of a rate of

**change is
the net
change.**

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Integration with

Substitution



Video

***Section 4.5 in
Stewart's
Calculus.***

**Preclass
Learning
Objectives:**

- **Substitution is the rule for integration which**

corresponds to the chain rule for differentiation.

- **Introduction to integrating with substitution**
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From:
<http://www2.math.binghamton.edu/> - **Department of Mathematics and Statistics,
Binghamton University**

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Last update: **2017/10/29 20:38**

