

Calculus Chapter 4

- Home
- Chapter 1
- Chapter 2
- Chapter 3
- Chapter 5

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.**

**Classroom Slides
PDF**

Fundamental Theorem of Calculus



Video

Video

Section 4.3 in Stewart's Calculus.

**Classroom Slides
PDF**

Indefinite Integrals



Video

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

**Classroom Slides
PDF**

Integration with Substitution

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



Video

Preclass Learning Objectives:

- **Substitution is the rule for integration which corresponds to the chain rule for differentiation.**
- **Introduction to integrating with substitution.**

**Classroom Slides
PDF**

From:
<http://www2.math.binghamton.edu/> - **Binghamton University Department of Mathematics and Statistics**

Permanent link:
http://www2.math.binghamton.edu/p/calculus/resources/calculus_videos/chapter4



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