

Chapter 5: The Definite Integral

Unit Details

Timeline

Approximately 5 teaching days

Resources

Text book Chapter 5
Moodle – Lessons, worksheets, answer keys.

Objectives

See individual lessons for details.

Key Ideas/Terms/Theorems/Processes

- Distance traveled
- Rectangular Approximation Method (RAM)
- Riemann Sums
- Integration notation and terminology
- Definite Integral and Area
- Discontinuous Integrable functions
- Properties of definite integrals
- Average Value of a Function
- Mean Value Theorem for Definite Integrals
- Connecting Differential and Integral Calculus
- Fundamental Theorem; Part 1 and Part 2
- Graphing the Integral function
- Trapezoidal Approximations

Practice & Support

- Pg 270 #'s 2-4, 9, 16, 20a, 24, 28, 30.
- Pg 282 #'s 1-39 odds.
- Pg 291 #'s 1-6, 7, 8, 11-35 odds.
- Pg 302 #'s 1-19 odds, 27-47 odds, 57, 59.
- Pg 312 #'s 2-8 evens, 9-12.
- Pg 270 #'s 18, 29; Pg 282 #'s 4, 10, 16, 32; Pg 291 #'s 14, 22, 24, 30, 32; Pg 302 #'s 10, 18, 30, 38, 46.

Assessments

Chapter 5 Summative Assessment

Lessons

All sections studied. See Lesson Notes for details.