

Exam 3 Information

Math 208 GH – Spring 2013

Exam 3 will cover the following topics from the textbook:

Integration

Chapter 5 - all

Chapter 7 - 7.1, 7.2, 7.3, 7.5, 7.6, 7.7

Chapter 8 - all except 8.5

Applications of Definite Integrals

Chapter 5 5.6

Chapter 6 6.1, 6.2, 6.3

The real number system

Appendix 6

Infinite Sequences and Series

Chapter 10 all

Parametric Equations and Polar Coordinates

Chapter 11 11.1, 11.2, 11.3, 11.4

Also study all handouts posted on the class's web site.

Theorems you need to know how to prove:

- 1) Prove that a bounded non-decreasing sequence is convergent.
- 2) Prove that a convergent sequence is bounded.
- 3) Prove that the limit of a sequence is unique.
- 4) Prove the constant multiplier rule for sequences.
- 5) Prove the sum rule for limits of sequences.
- 6) Derive the formula for the sum of an infinite geometric series.