

Exam 3 Information

Math 208 GH – Spring 2014

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, 6.5 (work only), 6.6

The real number system

Appendix 6

Infinite Sequences and Series

Chapter 10 all

Parametric Equations and Polar Coordinates

Chapter 11 – 11.1, 11.2

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) Prove the difference rule for limits of sequences.
- 7) Derive the formula for the sum of an infinite geometric series.