

Exam 2 Information – Math 207 GH

Fall 2015

Exam 2 will cover the following material

- 1) From the web site:
 - Review for Exam 1, Exam 2
 - Are You ready for Calculus?
 - All lecture notes posted on the class's web site for Classes 1-14
- 2) From the Textbook:
 - Chapter 1: 1.1, 1.2, 1.3, 1.5, 1.6
 - Chapter 2: 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 2.8
 - Chapter 3: 3.1 (Polynomials only), 3.3 (sine and cosine only)
 - Chapter 4: 4.1, 4.7 (refer to the handout [Optimization 2](#))

Students need to be prepared to prove: (note that these proofs are all posted on the lecture notes)

- The limit of $\sin x/x$ as x approaches zero
- Compute derivatives as limits of the difference quotient for algebraic and trigonometric functions
- The constant, sum, and constant multiple rules for derivatives
- To compute limits related to e