

Exam 2 Information – Math 207 GH

Fall 2017

Exam 2 will cover the following material

- 1) From the web site:
 - Reviews for Exam 1 and Exam 2
 - All lecture notes posted on the class's web site for Classes 1-14

Students need to be prepared to state: Definitions such as relative and absolute extrema, least upper bound property, Intermediate Value Theorem (both versions), the definition of the derivative at a number x , the definition of continuity (both at a point and on an interval)

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 functions and those of sine and cosine.
- The constant, sum, and constant multiple rules for derivatives
- The Intermediate Value Theorem (both versions)
- If f is differentiable at a number c , then it is continuous there