

History of Mathematics Final Exam

Instructions: You may use your course notes and other outside materials, but you must properly cite your sources. You may not consult each other or any other individuals, though you may ask me questions if some point needs clarification. Your responses are due by 7 pm, Tuesday, May 2, either uploaded in a single file to moodle (strongly preferred method), emailed to mathhist@ms.uky.edu, or sent by physical mail postmarked by the deadline.

1. (75 points.) For each of the areas below select three significant events in the history of mathematics that we have encountered in our course and write one paragraph for each event explaining its significance with respect to the historical development of that area. Do not use the same event for more than one area.
 - (a) Axiomatics
 - (b) Geometry
 - (c) Algebra
 - (d) Limits
 - (e) Infinity
2. (25 points.) For each of the Great Theorems in Chapters 8–12 of Dunham write a paragraph to suggest where that theorem or a piece of the associated material in that chapter relates to some specific aspect of K–12 mathematics.
3. (15 points.) Compose a question for an undergraduate history of mathematics course that takes into account mathematics, historical context, and K–12 education. Answer your question. Explain why you think this is a good question. Strictly limit yourself to at most three pages, double-spaced.