

Final Review Guide

The entire coverage of the exam is listed below, with each bullet point being one question on the exam (subpoints mean there are multiple parts). Next to each topic is a list of similar problems. For example, “Quiz 2.3” means “Quiz 2, Problem 3” and “Final 4” means “Fall 2008 Final, Problem 4”. Answer keys are available for all quizzes and tests (except the Fall 2008 Final) at <http://www.austinmohr.com/math111i>.

- Domain (Quiz 1.3, Test 1.4, Final 1)
- Solve for x (Quiz 3.2, Test 2.3, Final 8)
- Convert units (Quiz 4.1, Test 2.1, Final 7 but no scientific notation)
- Contract logarithms (Test 3.1, Final 6)
- Simplify exponents (Quiz 3.3, Test 2.3, Final 5)
- Graph a piecewise function (Quiz 2.3, Test 1.2, Final 4)
- Transform the graph of a general function (Quiz 10.3)
- Intercepts, global behavior, and graph of polynomial (Quiz 10.1, Final 3)
- Working with linear functions (Quiz 2.2, Test 1.6, Test 1.8, Final 10)
- Working with exponential functions (Quiz 4.2, Test 2.5, Test 3.3, Final 13)
- Working with quadratics (Quiz 9.3, Test 3.7, Final 12)
- Write a function that fits the description (Final 2)
 - Line through two points (Test 1.1)
 - Exponential through two points (Quiz 5.3, Test 2.8)
 - Logarithm through a point (Definition of log)
 - Parabola in vertex form (Quiz 9.1, Test 3.5)
 - Transformation of a graph (Quiz 9.1, Test 3.5)
 - Polynomial with certain roots through certain point (Quiz 10.2)
- Write a function that fits the word problem (New)
 - Linear functions (Quiz 2.2, Test 1.6)
 - Standard exponential (Quiz 4.2)
 - Half-life/Doubling Time (Quiz 6.3, Test 3.3)
 - Percentage growth (Quiz 5.2, Test 2.6)
 - Compounded interest (Quiz 7.1, Test 3.4, Final 9)