

Second Semester Algebra 4 Blueprint

The second semester exam consists of 48 multiple-choice questions covering 12 topics. Each topic has 4 questions with three correct answers being necessary for mastery of the topic. The formula sheet used in previous CRTs will be available to students. Graphing/scientific calculators may be used on the test.

Topic	Benchmark	Standard	Question
Chapter 7: Polynomial Functions	<ul style="list-style-type: none"> • Evaluate and perform operations on polynomial expressions • Classify and find the zeros by factoring and graphing 	2.12.4 2.12.3a 1.12.3a	1, 2, 3, 4 5, 6, 7, 8
Chapter 8I: Rational Functions	<ul style="list-style-type: none"> • Perform operations on rational expressions • Simplifying rational expressions • Solve rational equations 	2.12.4	9, 10, 11, 12 13, 14, 15, 16 17, 18, 19, 20
Chapter 8II: Radical Functions	<ul style="list-style-type: none"> • Simplify radical expressions • Perform operations on radical expressions • Solve radical equations requiring one step radical removal 	1.12.3a 2.12.4 2.12.5	21, 22, 23, 24 25, 26, 28, 29 27, 30, 31, 32
Chapter 9: Conic Sections	<ul style="list-style-type: none"> • Identify the correct conic given the definition or other information • Give the equation of the conic section from a graph or expanded equation 	2.12.4	33, 34, 35, 36 37, 38, 39, 40
Ch 10: Probability	<ul style="list-style-type: none"> • State the theoretical probability and use the Fundamental Counting Principle • Find permutations and combinations 	5.12.2 5.12.3	41, 42, 43, 44 45, 46, 47, 48

***FOR USE IN 2005-2006 SCHOOL YEAR.
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