Spring 2023 MATH 1060Q Exam 2 Suggested Practice Problems

Exam 2 will consist of a mix of short answer and multiple choice questions covering sections 3.1-3.5 and 4.1-4.4. On short answer problems, you must show all work that leads to your answer in order to earn full credit. Remember that calculators are **NOT** allowed on the exam.

You may create a **cheat sheet** to bring to the exam. You can write anything you want on the cheat sheet (formulas, definitions, problems, etc...). The cheat sheet must be handwritten by you and should be written on the front and back of one page of regular size computer/notebook paper.

Below, is a list of practice problems from your textbook. You should use these problems to help you study for the exam. In addition, you should also study problems from your text, class-notes, classwork, quizzes, and WebAssign. Most of the problems listed below are odd-numbered problems, so you will be able to find the answers in the textbook. You should make a note of any problems you find difficult and seek help from your instructor or SI leader on those problems.

Section 3.1, pages 206-207

- #25, #27, #45 (One-to-One Property)

- #29, #31, #39 (Graphs of Exponential Functions)

Section 3.2, pages 216-217

- #15, #17, #19 (Evaluating Logarithms)

- #29, #77 (One-to-One Property)

- #43, #45, #69 (Graphs of Logarithmic Functions)

- #61, #63 (Inverse Property of Logarithms)

Section 3.3, pages 223-224

- #5, #7 (Change of Base Formula)

- #45, #55 #59 (Expanding Logarithmic Expressions using Properties of Logarithms)

- #65, #69, #75 (Condensing Logarithmic Expressions using Properties of Logarithms)

Section 3.4, page 223

- #29, #33, #35 (Solving Exponential Equations)

- #51, #57 (Solving Logarithmic Equations)

Section 3.5, pages 243-244

- #7, #9, #11, #13, #15 (Compound Interest)

- #21, #23 (Radioactive Decay)

- #25, #27, #31, #35 (Writing a Formula Given Points)

Section 4.1, pages 267-268

- #13 (Sketching Angles)

- #15 (Coterminal Angles)

- #17, #33 (Complementary and Supplementary Angles)

- #35, #37 (Converting between Degrees and Radians)

- #51 (Finding Arc Length)

Section 4.2, page 275

- #23, #25, #27, #29, #31, #33, #35 (Evaluating Trigonemtric Functions)

Section 4.3, pages 284-287

- #5, #7, #59, (Solving Triangles with Soh Cah Toa)

- #45, #47, #77 (Using Trigonometric Identities)

Section 4.4, page 295

- #61, #63, #65, #67 (Using Reference Angles to Evaluate Trigonometric Functions)