

Midterm Two Study Guide

The midterm is 70 minutes long and will be given on Thursday, October 29 at 12:35 p.m. Please on time so that we can start on time and you'll get your full hour and ten minutes. The test will cover Chapters 4, 5, and 6. You will need your graphing calculator. To study for this test, I recommend studying your homework, the class work, quizzes, hours by arrangement worksheets, and the examples I went over in class. Practice using your calculator and all of its built in functions so that you know how to use it – I cannot help you with that on the test. You must have your own calculator – you cannot share or use mine. It's also a good idea to have an extra set of batteries. There will be two parts – one with a calculator and one without.

- Before you begin, make sure you read the directions carefully and answer the question being asked. The wording on the problems will be similar to what we've done in class and in homework. Problems may have parts that span multiple sections and chapters.
- Show all work and circle your final answers.

Examples of non-calculator problems

- Transformations, quadratic equations, exact values of trig functions

Similar problems:

Quiz #6 & #7	Sec 5.2: 29	Sec 5.4: 10	Sec 6.6: 9 - 20
Sec 5.1: 2 – 5, 8	Sec 5.3: 17, 35	Sec 6.4: 12 – 15, 23	

Examples of problems for which calculators are allowed

Chapter 4

- Logarithms and exponential functions
- Limits and asymptotes

Similar problems:

Sec 4.1: 34 – 49	Sec 4.2: 1 – 8, 31, 34	Sec 4.3: 1, 5, 7 – 10, 19
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Chapter 5

- Transformations, reflections, and symmetry
- Quadratic functions

Similar problems:

Sec 5.2: 20 – 23	Sec 5.3: 1, 8, 26	Sec 5.4: 14, 15, 16	Sec 5.5: 9 – 24, 31
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Chapter 6 – the focus will be on sections 6.3 – 6.6 with radians only

- Transformations (period, amplitude, horizontal shifting, midline, and determining the function)
- Trig identities and reciprocals

Similar problems:

Sec 6.5: 1-7, 11 – 18, 28, 35	Sec 6.6: 28 – 31, 36
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