

Precalculus CP 1 Study Guide for the Midyear Exam

Your Exam is on
Wednesday, January 18th
from 7:45-9:15

The midyear exam will consist of all the material we've covered during the first semester. Below is a list of topics that you will be asked to know on the exam (categorized by chapter):

Chapter 1: Functions and their Graphs

- Graphs of Equations
- Linear Equations in two variables
- Functions
- Analyzing Graphs of Functions
- A Library of Functions
- Shifting, Reflecting and Stretching Graphs
- Combinations of Functions
- Inverse Functions

Chapter 4: Trigonometry

- Radian and Degree Measure
- Trig Functions- six main identities
- Right Triangle Trig
- Trig Functions of any Angle
- GRAPHS: Sine, Cosine, Secant, Cosecant, Tangent, Cotangent
- Inverse Trig Functions
- Application Problems

Chapter 5: Analytic Trigonometry

- Using the Fundamental Identities: simplifying
- Verifying the Trig Identities: PROOFS
- Solving Trig Equations
- Sum and Difference Formulas
- Half and Double Angle Formulas

Chapter 6: Additional Trig Topics

- Law of Sines
- Law of Cosines
- Application Problems

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Suggestions for how to prepare for the exam:

1. Begin preparing soon! Begin preparing soon! Begin preparing soon!
2. Find a study partner and make a schedule of times when you will meet and the sections you will cover. Don't try to tackle too much in one day... spread it out!
3. Review past quizzes and test. Cover up the solution and redo the question again. Don't just look over the solution- actually REDO the problem to be sure you can do it. THIS IS THE BEST WAY TO PREPARE FOR THE EXAM!
4. Work on the review problems that we go over in class that will I'll hand out soon. If you get stuck on any problems that you attempt, look back at the book/class notes or meet with your study partner and see if you can get it. If you are still experiencing difficulties, please come see me as soon as possible.
5. Prepare a formula sheet. Please use the one provided by Mr. Baroody- it will have all the formulas I have typically given you this semester. You can write any information you want on the other side. This includes notes, old problems, and formulas. The sheet must be handwritten. You may work with another student, but you may not simply make a photocopy of another student's sheet.
6. Make sure to get at least seven hours of sleep before the exam. Do not stay up late and cram. Study well beforehand so that you are not in a panic the night before.
7. Eat breakfast the day of the exam so you have energy and can stay focused!

Pre-Calculus Morning of the Exam Checklist

- _____ **GRAPHING CALCULATOR (I will NOT provide you with one!)**
- _____ **SHARPENED PENCILS**
- _____ **YOUR FORMULA SHEET**
(one side of an 8.5" x 11" sheet of paper, this will be collected with the exam)