

Math 633

Final Exam Topics

Final Exam: Tuesday 12/6/05 at 4:00 p.m.

- Periodic Functions as models - Use the information given to find the period, amplitude, and axis of oscillation and interpret these in terms of the context given.
- Given a periodic situation, sketch the graph and write an equation corresponding to it. (Ferris wheel, carousels, pendulums, periodic data in tables, lighthouse beam....)
- Sine regression on calculator for periodic data given in a table
- Verifying identities and solving equations graphically and algebraically.
- Definitions of the six trigonometric functions on the unit circle and in right triangles
- Using right triangles to solve problems
- Addition/Subtraction formulas - various methods of proof
- Double/half angle formulas
- Inverse trigonometric functions
- Law of Sines, Law of Cosines - derive and use
- Addition of periodic functions
- Describe activities from class, where it fits into curriculum, benefits, etc:
- Evaluation of student work related to the above topics
- Study problems solved in class and homework problems.
- See Chapter 4 and 5 review