

Math 633 - Homework Due 10/20/05

1. Lesson 4.3 all (Turn in: 2, 5, 8, 10, 12)
2. Use Geometer's Sketchpad to trace cotangent, secant, and cosecant from the unit circle. Describe the shape of the trace that results in each case in full detail including the following: Where does it start? Where does it end? When is the value positive? When is the value negative?
3.
 - a. Use a graphing calculator to write the equations for the picture of the "dress" shown below. Use trigonometric functions and any needed algebraic functions to reproduce the picture. Take the design piece by piece. Write a function that will create each piece and state the domain of each piece. The design may be exactly as given or may be used as a basis for a "more elaborate" design. (This activity was taken from Trigonometry Activities for the TI-82 and TI-85 Graphing Calculators by Dennis and Neal, PWS Publishing Company.)
 - b. Give a brief analysis of an activity of this type. What does a student need to understand to do this type of activity? Describe some of the benefits.

Picture not available (see Dr. Wallace)

Reminders:

- History Poster-Board is Due Tuesday, November 1
- Midterm Exam on Thursday, October 27