Final Exam Preparation

1. The exam is cumulative, covering every section we talked about in class.
2. Any kind of problem that was fair game on previous tests is also fair game on the final.
3. A large portion of the final exam will be based on the previous tests. This means that many (but not all) problems on this test will be similar to problems you have been tested on before.
4. More than half the questions on the final are multiple choice in nature. You **<u>do not</u>** need to bring a scantron.
5. You should memorize any formulas that you were required to know for previous tests. Also you need to know the various properties of logarithms and the standard equations of a circle, ellipse, and hyperbola.
6. Study the material from chapters 9 & 10 that you haven't been tested on yet. You should be able to ....

   a) evaluate composite functions and find inverses of one-to-one functions. [9.1]
   b) apply the HLT test. [9.1]
   c) verify whether or not two functions are inverses. [9.1]
   d) graph exponential and logarithmic equations. [9.2, 9.3, 9.5]
   e) convert between logarithmic and exponential form. [9.3]
   f) apply the product, quotient, power, and change-of-base rules. [9.4, 9.5]
   g) solve exponential and logarithmic equations. [9.6]
   h) graph circles, ellipses, and hyperbolas and find the equation of a circle. [10.1-10.3]
   i) solve systems of nonlinear equations. [10.4]
   j) homework-type problems and examples from class.

7. Study Suggestions:

   a) If you don't have a lot of time to prepare, then at least make sure you can do the problems that appear on previous test. This should enable you to get at least a low passing grade.
   b) If you need an "A" or "B" on the final, then (along with studying previous tests) use your homework and notes as a study guide to prepare for the exam. Avoid studying the really long problems because they probably won't be on the test.