## Math 234 Preview Exercises

Read Sections 9.5 (from page 450) and 9.6 in the textbook and answer the following questions. Hand in this worksheet at the next class.

1. How does Example 9.5 .5 count the number of possible teams when two members of a group insist on working as a pair?
2. How do you count the number of permutations of a set with repeated elements, such as the letters in the word MISSISSIPPI?
3. Why is $\binom{n}{r}=\binom{n}{n-r}$ ?
4. How do the binomial coefficients relate to Pascal's triangle?
5. What is the Binomial Theorem?
