## Math 270 - Basic Discrete Mathematics Practice Quiz on Section 9.5

Solutions

**Directions:** Answer the problem given below.

- 1. A computer programming team has 13 members consisting of 5 women and 8 men. Answer parts a.-c. below, noting that you *do not* need to simplify: your answer may include products, division, sums, differences, exponents, factorials, and binomial coefficients.
- a. How many groups of five can be formed from this team?

**b.** How many groups of five have exactly 3 women?

**c.** How many groups of five have at least 3 women?

$$\binom{5}{3}\binom{8}{2} + \binom{5}{4}\binom{8}{1} + \binom{5}{5}\binom{8}{0}$$
# with # with # with # with all
3 wom + 9 wom + 5 wown