MA 110-06
§2.2 – 2.4

Quiz #3

score

Name: _____

25 September 2001

1. In a survey of 200 students, 125 say they enjoy playing tennis, 85 say they enjoy racquetball, and 55 enjoy playing neither. How many enjoy playing both? Draw a properly labeled Venn diagram for this problem. *(6 points)*

2. How many ways can 8 textbooks be arranged in a row on a shelf? How many ways can they be arranged if 5 of the books are on physics, 3 are on math, and books of the same subject must be adjacent? Explain your counting procedures. *(7 points)*

3. How many ways can a committee of 5 people be formed from a group of 14 people? If the 14 people consist of 8 men and 6 women, how many committees can be formed consisting of 3 men and 2 women? *(7 points)*