Math 477 "QUIZ" for Lecture 2

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. Out of a class of 220 students,

• 100 students play football

• 100 students play soccer

• 100 students play basketball

• 40 students play football and soccer

• 40 students play football and basketball

• 40 students play soccer and basketball

• 30 students play football soccer and basketball .

How many students play none of the three sports?

2. Out of a large group of students it is found that 20% take both calculus and algebra, and 30% take neither of them. The probability that a student takes calculus is twice the probability that a student takes algebra.

Determine the probability that a randomly chosen member of this group takes algebra?