

Math 6409 - Fall 2008
Homework # 7
Due November 18, 2008

1. For the uniform final exam for College Algebra, the university has arranged 5 classrooms to be used for the exams. There are 150 students, determine the number of ways to assign the students so that Room 1 has an even number of students, Room 2 has at least 5 students and Rooms 3, 4 & 5 can have any number of students.

2. In a small, questionably ethical town, of 50 residents, each resident votes either 0 or 2 times, except the mayor who votes either 3 or 5 times, give a formula for the number of ways that n votes can be cast.