

**MAT 375-1**  
**HOMEWORK ASG. #9**  
**HAND IN THURSDAY, NOVEMBER 10**

1. Exercise Set 5.5 #2a
2. Verify the same identity (Equation (6) on page 226) by a committee-selection argument.
3. Exercise Set 5.5 #9a [HINT: Think about forming committees from a group of  $n$  men and  $n$  women.]
4. Exercise Set 6.1 #2
5. Exercise Set 6.1 #4
6. Exercise Set 6.1 #8
7. Exercise Set 6.1 #10
8. Exercise Set 6.1 #18 (Also use MAPLE to find the coefficient that counts the desired number of distributions.)