

**Combinatorics, Math 145**  
**Homework three, Due April 28**

1. Problems 3.8.5, 3.8.7, 3.8.10, 4.3.5, 4.3.13, 4.3.15
2. Determine the number of solutions of the equation

$$x_1 + x_2 + x_3 + x_4 = 14$$

in positive integers  $x_i$  not exceeding 8.