

Math 181 Homework 8

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Due: April 11, 2008

- *1. Determine all of the winning coalitions for the weighted voting system [30: 20, 7, 6, 5, 1].

- *2. For each part below, the winning coalitions (of unnamed voting systems) are given. Determine whether each voter is a dictator, a dummy voter, has veto power, or none of these.
 - a. AB, ACD, ABC, ABD, ABCD
 - b. A, AB, AC, ABC
 - c. AB, ABC, ABD, ABCD

- *3. Consider the voting systems below. Determine whether each voter is a dictator, a dummy voter, has veto power, or none of these.
 - a. [15: 16, 3, 2]
 - b. [13: 9, 4, 3, 1]
 - c. [14: 9, 5, 3, 1]

- *4. A weighted voting system with 4 voters has the following winning coalitions: AB, ABC, ABD, ABCD, ACD. If the quota is 11, determine weights for the 4 voters. (There is more than 1 possible answer!)

- *5. Chapter 11 (pg 425): 5, 7, 8.