Math 1007 Fall 2025

Mathematics and Politics

Homework 2 Due on Blackboard

Wednesday, September 10 at 12:45 PM

Name:

Make sure to explain why all your answers are correct! Remember that you should be making short persuasive arguments. (This explanation can take the form of showing calculations, or of a couple sentences of writing, depending on the question.)

- (1) Do The Mathematics of Politics problem 1.2
- (2) Consider the bloc profile with five blocks:

A	A	A	В	В	В	В	A	A	A	A	В	
---	---	---	---	---	---	---	---	---	---	---	---	--

- (a) Who wins under the simple majority method?
- (b) Who wins if each bloc gets one vote?
- (c) Who wins if each bloc gets a number of votes equal to the size of the bloc?
- (d) We got very lucky in being able to answer the previous two questions. Which of these five blocs is likely to cause a problem unless I specify more information?
- (3) Do The Mathematics of Politics problem 1.4
- (4) Do The Mathematics of Politics problem 1.8