Math 1007 Fall 2026
Mathematics and Politics
Homework 2
Due on Blackboard
Tuesday, September 8

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	B	B	B	B	A	A	A	A	B

(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