Voting Systems

Read the book chapters first, then make sure you can answer the questions in the notes. Following that, work on some skills-check problems and exercises. Then take the online quizzes.

Reading 9.1, 9.2 **Skills Check** 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13 **Exercises** 1, 2, 3, 4, 5, 7, 9, 10 **Quiz** Take the quiz¹

9.1

- What is a preference list ballot?
- Why do we always assume there is an odd number of voters?

9.2

- How does *majority rule* work?
- What are the three desirable properties that the majority rule have?
- When do we say that a voting system is *monotone*?
- What system do we call a *dictatorship*? What system do we call *imposed rule*? How do those 2 systems differ?
- What does May's theorem tell us?
- Come up with some other systems for deciding the winner in a 2-way election. Which properties do your systems violate?
- How does Condorcet's Method work?
- What is Condorcet's Voting Paradox?

¹https://moodle.hanover.edu/mod/quiz/view.php?id=5017