

## MATH 1300-D WEEK 8

SECTIONS 10.3 AND 11.1; PAGES 534–544 AND 561–569

**ABSTRACT.** Say there are three candidates for the position as Student Council President. If one candidate is preferred by a majority (more than 50%) of the voters, then that candidate should reasonably win. But what if no candidate is preferred by a majority; how does one then decide who wins?

### SECTION 10.3

**Reading.** Make sure that you understand what is behind the words:

- (1) Standard divisor
- (2) Standard, lower and upper quota
- (3) Population paradox

**Self-assessment.** To verify that you have understood the material, solve the following problems at the end of the section: 1–2, 5–8, and 26.

### SECTION 11.1

**Reading.** Make sure that you understand what is behind the words:

- (1) Plurality
- (2) Majority
- (3) Plurality method
- (4) Plurality-with-elimination method
- (5) Borda count method
- (6) Pairwise comparison method

**Self-assessment.** To verify that you have understood the material, solve the following problems at the end of the section: 2, 11–14, and 31.

Now take Quiz-14; you need to score 75% on this quiz before you can start working Homework-14, which is due on Monday 19 October.