January 7, 2008
Basic Information: Math 310

Instructor: Tatiana Toro, office: Padelford C-343 email: toro@math.washington.edu, phone: 543-1173.

Office Hours: Tuesday 11-12, Friday 1:30–2:30 or by appointment.

Visit the class website (and explore each of the links). The URL is:
http:// www.math.washington.edu/~toro/courses.html

Course schedule:

- Monday, Wednesday, Friday, 50mn lectures.

- Monday 2:30-4:20, Enrichment section.

Important dates:

- Friday February 15th, 2008, midterm.

- Math 310 A: Wednesday March 19, 2:30-4:20, final exam.

- Math 310 B: Thursday March 20, 8:30-10:20, final exam.

Grading information:

- Homework: 40%

- Midterm: 20%.

- Final: 40%.

Homework:

- Read Preface for the Student.

- Problem 2.40 (a)

Problem 1.8

In the morning section of a calculus course, 2 of the 9 women and 2 of the 10 men receive the grade of A. In the afternoon section, 6 of the 9 women and 9 of the 14 men receive A. Verify that, in each section, a higher proportion of women than of men receive A, but that, in the combined course a lower proportion of women than of men receive A. Explain!

Problem 1.11

A store offers a 15% promotional discount for its grand opening. The clerk believes that the law requires the discount to be applied first and then the tax computed on the resulting amount. A customer argues that the discount should have been applied to the total after the 5% sales tax is added, expecting to save more money that way. Does it matter? Explain.

Problem 2.40

Two opposite corner squares are deleted from and eight by eight checker-board. Prove that the remaining squares cannot be covered exactly by dominoes (rectangles consisting of two adjacent squares, one black one white).