

**MATH 512 HOMEWORK 8—DUE AT THE BEGINNING OF CLASS ON THURSDAY,
MARCH 26, 2009**

One goal for this course is for you to develop your skill in effectively communicating mathematics. With this in mind, you should clearly write up your solutions.

- (1) Do exercises 10.12, 10.13, 10.15, and 10.17.
- (2) Along the way, think about the goals: to know more about the roots of cubics; to understand the discriminant of a cubic as you already understand the discriminant of a quadratic; and to find a way to compute the discriminant of a cubic in terms of its coefficients.