

**WRITTEN HOMEWORK #7, DUE JUNE 2, 2010, UPDATED MAY 26
2010**

Unless explicitly noted, you are to justify all of your responses with work and/or proofs.

- (1) Exercise 4.3ab from the text.
- (2) Exercise 4.13 from the text.
- (3) Exercise 4.14 from the text.
- (4) Exercise 4.15 from the text.
- (5) Exercise 4.16 from the text.
- (6) Exercise 4.19 from the text. You probably want to use a calculator for this problem.
- (7) (Redo) Exercise 4.1a from last week's assignment. A lot of people cited a fact from the textbook on page 109 to do this problem. You should not just cite this fact, but actually give details, for either what the book claims is true, or whatever other method you want to use to solve this problem. In particular, if you choose to follow the book's claim, you should show why the line parameterization works, and also explain why there is a point on the conic to begin with.