

Additional Material for Math 784

There is a list of material to know for the course Math 784 at the URL

<http://www.math.sc.edu/~filaseta/comps/math784reviewlist.ps>

The following is an addendum to the material listed there, clarifying what material should no longer be viewed as material to know for the comp and what additional material should be studied for the comp. As a reference, it is assumed that you have a current copy of the notes at the URL

<http://www.math.sc.edu/~filaseta/gradcourses/TheMath784Notes.pdf>

Items to Study (or Not):

- Items (6), (7), and (8) from the old list can be ignored, but you should know how to use continued fractions to obtain units (see (9) of the old list).
- Replace item (20) from the old list with knowing the proofs of Theorems 66, 68, and 69.
- Replace item (23) from the old list with knowing the proof of Theorem 82.
- In addition, know the definition of the class group and class number (not in the notes). This is related to the last topic of the old list, fractional ideals. You should understand that they form a group (the class group) and what the group operation is.