MATH 121 PROBLEM SET 4

RAVI VAKIL

This set is due at noon on Friday February 23 in Jason Lo's mailbox.

1. *Biquadratic extensions.* Dummit and Foote page 562, problem 15.

2. *Norms of Galois extensions.* Dummit and Foote page 563, problem 17.

3. *Galois groups of function fields.* Dummit and Foote page 565, problem 30. (You'll have to read problem 29, which was discussed in class.)

4. *Newton's formulas for power sums.* Dummit and Foote, page 599, problem 22.

Date: Thursday, February 15, 2007.