

MATH 42-NUMBER THEORY
PROBLEM OF THE DAY #14
DUE THURSDAY, MARCH 24 2011

1. Factor the following Gaussian integers into Gaussian primes (that is, factor until you can't anymore): $2 + 4i$, 30 , $7 + 9i$. What are the norms of the Gaussian primes in your factorizations? In general, can you guess what the norm of a Gaussian prime can be?