

Math 345 – Wednesday 11/22/17

Exercise 52. Factor each of the following Gaussian integers into a product of Gaussian primes. (You may find the Gaussian Divisibility Lemma helpful in deciding which Gaussian primes to try as factors. For the integers, try factoring into integer primes first, and then factoring those into Gaussian primes.)

- (a) Each integer $2 \leq k \leq 10$.
- (b) 975
- (c) $91 + 63i$
- (d) $53 + 62i$