

March 4, 2011

18.702 Problem Set 4

due Friday, March 11

1. Chapter 11, Exercise M.7 (*maximal ideals in the ring of functions*)
2. Chapter 12, Exc. 2.8. (*division with remainder in $\mathbb{Z}[i]$*)
3. Chapter 12, Exc. 5.4. (*primes in $\mathbb{Z}[i]$*)
4. Chapter 12, Exercise M.2 (*factoring in an additive semigroup*)
5. Chapter 12, Exercise 4.10 b,d,e (*factoring polynomials. Do not use the computer!*)

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