

February 22, 2011

18.702 Problem Set 3

due Monday, February 28

1. Chapter 11, Exc. 2.2 and 3.10 (*formal power series*)
2. Chapter 11, Exc. 3.4 (*a homomorphism $\mathbb{C}[x, y] \rightarrow \mathbb{C}[t]$*)
3. Chapter 11, Exc. 6.8 (*Chinese Remainder Theorem*)
4. Chapter 11, Exc. 8.1 (*principal ideals in $\mathbb{Z}[x]$ that are maximal*)
5. Chapter 11, Exc. 9.12 (*polynomials without common zeros*)
6. Chapter 11, Exc. M.3 (*maximal ideals in a ring of sequences*)

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