

HOMEWORK 7, DUE TUESDAY FEBRUARY 23RD

1. Are the following true or false? If true prove them; if false give counterexamples.
 - (i) Every prime ideal is maximal.
 - (ii) Every ring is a PID.
 - (iii) Every UFD is a PID.
2. Chapter 4, §6. 1-14.
3. Chapter 5, §1. 3, 4.