MAT 150C University of California Spring 2005

Homework 7
due June 1, 2005 in class

(1) Artin 13.2.4 (pg. 531)
(2) Artin 13.3.1 (pg. 531)
(3) Artin 13.3.8 (pg. 531)
(4) Artin 13.3.12 (pg. 531)
(5) Artin 13.3.15 (pg. 531)
(6) Artin 13.5.1 (pg. 532)
(7) Let $f(x)$ be an irreducible polynomial of degree n over a field F. Let $g(x)$ be any polynomial in $F[x]$. Prove that every irreducible factor of the composite polynomial $f(g(x))$ has degree divisible by n.