Assignment 8 – MA 542

Due in class: Wednesday, Mar. 31, 2010

Chapter 20: 2, 7, 8, 10, 16, 30, 32 (Edition 6: same numbers)

(1) Let R be a commutative ring with identity. Suppose R is *not* an integral domain. Give an example of a polynomial over R that doesn't have a root in any ring T containing R.