

Homework 6 – Math 407

1. Section 4.3: Exercises 1(a), 2(a), 7(a), 8(a). In these problems, if it says to calculate the full QR factorization, just calculate the reduced QR factorization.
2. Section 3.1: Exercises 4(a), 5(a), 7, 8, 10, 12. You can leave your answers unsimplified. (Don't worry about expanding the polynomials and collecting like terms.) Hint for exercise 10: Consider the polynomial $Q(x) = P(x) - 10$.
3. Section 3.2: Exercises 2, 4
4. Section 5.1: Exercises 2(a,b), 3(a)