Math. 640   Fall, 2018

Homework 6–7, due October 17

1–2. Exercises 18.4 and 18.11, pp. 116–117. (In 18.11, find the range by a direct method (not Theorem 18.3), so as to have something independent to "check".)

3. Exercise 24.3, p. 147. ("Reduced" is defined as the situation described in Theorem 24.1, or, equivalently, by Exercise 24.1.)

4. Exercise 25.3, p. 150.

5. Compare the efficiency of the "Feynman Rule" formula for calculating numerically the determinant of a 3×3 matrix (see Corollary in the notes) with your favorite other method for doing so. Do this either empirically (writing computer programs and timing them) or theoretically (counting algebraic operations).

6–7. Exercises 26.4 and 26.9, pp. 155–156.