# Homework 11 (updated)

1. Section 5.3: Read Table 5.6.

2. Section 5.3: problems 5, 13, 17, 49, 71, 73.

3. Section 5.4: Problems 3, 7, 11, 15, 17, 25, 27, 31, 33, 34, 36, 77, 81, 84, 89.

4. Section 5.5: problems 15, 16, 35, 41, 43, 53, 57, 58, 59, 60, 61, 67, 69.

   Hints:

   Problem 41: the integrand $= x^{-4}\sqrt{1 - 3x^{-3}}$.

   Problem 43: $x = (x - 1) + 1$.

   Problem 57, 60: see a similar problem in lecture 19.

   Problem 58: the integrand $= \dfrac{x}{x^2\sqrt{x^4 - 1}}$.

5. Section 5.6: problems 2, 33, 45, 112, 115, 117.

6. Chap 5, Additional and Advanced Exercises: problems 5, 21, 22, 24, 31.