MATH 151 Homework 25

Due 4/22

Read Section 5.2.

Do Section 4.7 Exercise 46
Do Section 5.2 Exercises 12, 29, 38, 42, 44,

Also, do the following exercises.

SF57. The Excel workbook that goes with this assignment uses two values of n to compute the left and right Riemann Sums for an integral $\int_a^b f(x)\,dx$. Determine the values of a, b, and the function $f(x)$. Also, determine the value of n in each case, and whether L_n or R_n is an upper or lower bound. To what degree of accuracy does each computation compute the integral?

SF58. This limit is a definite integral $\int_a^b f(x)\,dx$. Determine the integral:

$$\lim_{n\to\infty} \sum_{i=1}^{n} \left(2 + \frac{3i}{n}\right)^4 \frac{3}{n} \;=$$