Review for Math 341 For the Final

The final exam covers the material covered in the previous midterms as well as sections 6.5, 6.6, 7.1-7.5 of the textbook.

Definitions to know:

1. Partition (p. 186)
2. Upper and lower sum (p. 186)
3. Refinement (p. 187)
4. Upper and lower integral (p. 188)
5. Riemann-integrable (p. 188)

Theorems to know:

1. Theorem 6.5.1 (p. 170)
2. Theorem 7.2.9 (p. 190) – continuity implies integrability
3. State and prove the Fundamental Theorem of Calculus (p. 200)

You should be able to:

1. State and prove properties of power series concerning convergence.
2. Find the points where a power series converges.
3. Compute a Taylor series.
4. Show that a function is integrable and when two functions have the same integral.
5. Know the properties of the integral.
6. Know and apply the Fundamental Theorem of Calculus.