MATH 361 — HOMEWORK 2.

due on Friday, January 31.

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Topics:
• Review of Math 360
• 5. Uniform Convergence
  – 5.1 Pointwise and Uniform Convergence
  – 5.2 The Weierstrass M Test
  – 5.5 The Space of Continuous Functions
  – 5.6 The Arzela-Ascoli Theorem
  – 5.7 The Contraction Mapping Principle and Its Applications

Second Homework Assignment.

Reading:
• Read sections 5.6 and 5.7 of Chapter 5., paying close attention to the examples. Read your notes.

Exercises: Problems:
• Page 274: problems 4, 5
• Page 282: problems 1, 8
• Page 316: problems 11, 14, 24, 40, 45, 47, 68.