MATH 361 — HOMEWORK 12.

due on Wednesday, April 26.

by J. E. Marsden and M. J. Hoffman

Additional Reading: “Foundations of Modern Analysis”
by J. Dieudonné

Topics:
• Chapter 7: The Inverse and Implicit Function Theorems and Related Topics
  – 7.4 Further Consequences of the Implicit Function Theorem.
  – 7.6 The Morse Lemma
  – 7.7 Constrained Extrema and Lagrange Multipliers

Twelfth Homework Assignment.

Reading:
• Read Sections 7.6 and 7.7. Read your notes.

Exercises: Problems:
• Page 413: problems 1, 2, 3.
• Page 420: problems 1, 2.
• Page 438: problems 16