MATH 361 — HOMEWORK 6.

due on Friday, March 3.

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

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

Topics:
- Chapter 6: Differentiable Mappings
  - 6.1 Definition of the Derivative
  - 6.3 Continuity of Differentiable Mappings; Differentiable Paths
  - 6.5 The Chain Rule
  - 6.6 Product Rules and Gradients
  - 6.7 The Mean Value Theorem

Sixth Homework Assignment.

Reading:
- Read Sections 6.1, 6.3, 6.5, 6.6 and 6.7. Read your notes.

Exercises: Problems:
- Page 338: problems: 1, 2, 4
- Page 349: problems: 3
- Page 352: problems: 2, 4
- Page 355: problems: 2, 3, 6
- Page 383: problems: 12, 16