MATH 260 — HOMEWORK 6.

due on Friday, February 23.

by Tom M. Apostol

Topics:
- Chapter 8. Differential Calculus of Scalar and Vector Fields
  - all
- Chapter 9. Applications of the Differential Calculus
  - 9.6 Derivatives of functions defined implicitly
  - 9.9 Maxima, minima, and saddle points
  - 9.10 Second-order Taylor formula for scalar fields
  - 9.11 The nature of a stationary point determined by the eigenvalues of the Hessian Matrix

Sixth Homework Assignment.

Reading:
- Read Sections 9.6, 9.7 and 9.9-9.11.

Problems: Make sure you can do all the Problems in Sections 8.24, 9.8 and 9.13, but write up (only) the following problems to be handed in:
  1. Section 8.24 (page 281): 1, 2, 4, 9, 14
  2. Section 9.8 (page 302): 1, 2, 4, 11